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Administrative County of Middlesex.

ANNUAL REPORT

OF THE

COUNTY MEDICAL OFFICER OF HEALTH

FOR THE

YEAR 1929.

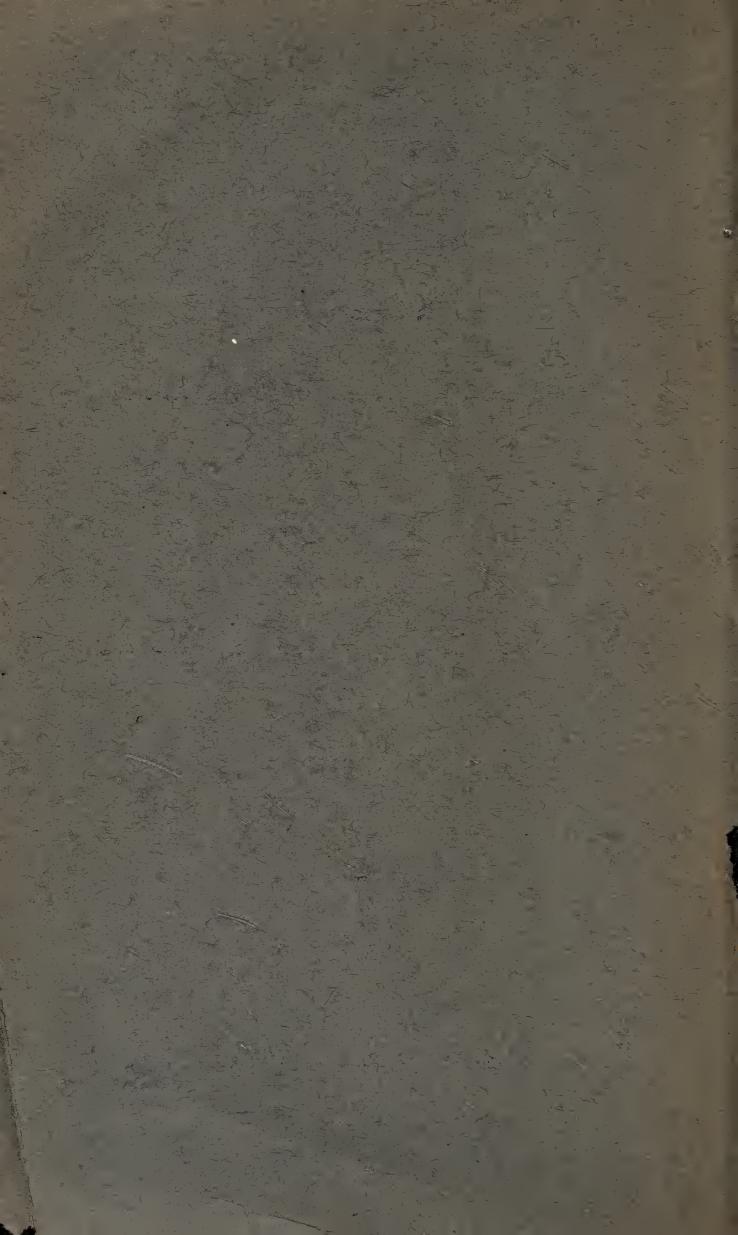
LONDON:

HARRISON AND SONS, LTD., ST. MARTIN'S LANE, W.C. 2.

Printers in Ordinary to His Majesty.

1930.

[No. 699]



P.H. $\frac{149}{1930}$



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TO THE CHAIRMAN AND MEMBERS OF THE COUNTY COUNCIL OF MIDDLESEX.

Public Health Department, 10 Great George Street, Westminster, S.W.1. September, 1930.

SIR, MY LORD, LADIES AND GENTLEMEN.

I have the honour to submit for your consideration my Annual Report on the Public Health of the County during 1929. This report falls into the category of "ordinary" reports, as laid down by the Ministry of Health, and accordingly is somewhat brief in character, but nevertheless contains much that is of interest from the view-point of the physical well-being of the inhabitants of the County.

The effects of the wide-spread epidemic of influenza which occurred early in the year are reflected in the increased death rate in the County, and the ever-increasing prevalence of smallpox, albeit mild in character, cannot be regarded with indifference. On the other hand, the diminution in the maternal mortality rate, as compared with that of the preceding year, is satisfactory so far as it goes, but a much greater reduction must take place before

the position can be viewed with equanimity.

The report on the first year's working of the Council's scheme for the systematic veterinary inspection of milk cows, which appears on pages 19 to 22, is worthy of study, the results shown therein affording ample justification of the Council's decision to undertake this valuable public health measure.

From the public health standpoint, the year 1929 will be memorable for all time as the year in which the Local Government Act, 1929, received the Royal Assent. This Act contains many provisions affecting the organisation and administration of public health, and places greatly

increased responsibilities upon County Councils.

Undoubtedly the most far-reaching in its results is the provision which abolishes Boards of Guardians and transfers to County Councils and County Borough Councils the great majority of the functions previously carried out by the Guardians. Included amongst these are the medical

organisation and arrangements for the institutional and domiciliary care of the sick poor, and there can be no doubt that this transference should lead to a unification of health services which, until recently, appeared almost impossible of achievement. The Act goes much farther than merely to transfer functions from one body to another in that it encourages County Councils, so far as possible, to remove from the Poor Law the services for the relief of mental and physical defect and disease and for the care of mothers, infants and children, and to administer these under powers

conferred by other Acts.

The County Council and its officers devoted a very large amount of time to the consideration of the Act, and in accordance with Section 5 prepared a scheme of the administrative arrangements proposed to be made for discharging the functions transferred under Part I of the It was apparent on careful investigation that the organisation and the institutions, which had been provided by the existing Boards of Guardians and which would be transferred to the County Council, were not sufficiently adequate to enable the County Council immediately to undertake to provide under other Acts all the assistance which the Local Government Act, 1929, empowered them to do. The Council, however, decided to embody as a part of their scheme a declaration of their intention to do so as soon as possible. The terms of this declaration are as follows:--

DECLARATION AS TO THE PROVISION OF CERTAIN ASSISTANCE OTHERWISE THAN BY WAY OF POOR RELIEF.

2.—(1) Pursuant to the provisions of Section 5 of the Act, the Council has had regard to the desirability of securing that as soon as circumstances permit all assistance which can lawfully be provided otherwise than by way of Poor Relief shall be so provided.

(2) It is the intention of the Council, as soon as practicable (a) to secure that all such assistance shall be provided otherwise than by way of Poor Relief; (b) to take the necessary steps to ensure that any assistance which can be provided either by way of

Poor Relief or by virtue of any of the Specials Acts shall be provided by virtue of the appropriate Act and

not by way of Poor Relief.

(3) It is hereby declared that all domiciliary assistance to blind persons shall be provided exclusively by virtue of the Blind Persons Act, 1920, and not by way of Poor Relief.

Apart from the transfer to the County Council of the responsibilities of Boards of Guardians, many other important health provisions are contained in the Act. These include the duty of County Councils to survey the isolation hospital provision in the County and to prepare a scheme to ensure that adequate facilities for the isolation of cases of infectious disease are available in all districts, the duty to formulate arrangements whereby every Medical Officer of Health subsequently appointed for a district shall be restricted from engaging in private practice, power to contribute towards the provision and maintenance of sewers and sewage disposal works, the supply of water, &c., but all these matters have received or will receive suitable consideration by the appropriate Committees of the County Council, and the preface to my Annual Report is hardly the place for their detailed discussion.

The very large amount of new work which the Local Government Act has placed upon the Public Health Department of the County Council and upon me, personally, must be my apology for the somewhat belated appearance of this Annual Report, and I desire to place on record my appreciation of the invaluable assistance I have received from my Deputy, Dr. Macaulay, and my Assistant, Dr. Perkins, who have been largely responsible for the prepara-

tion of the detailed matter contained therein.

I have the honour to be, Your obedient Servant,

County Medical Officer.

Staff.

WHOLE-TIME OFFICERS.

County Medical Officer of Health and School Medical Officer.

J. Tate, M.R.C.S., L.R.C.P., D.P.H.

Deputy County Medical Officer of Health and Deputy School Medical Officer.

H. M. C. Macaulay, M.D., B.S., B.Sc., D.P.H.

Tuberculosis Medical Officers.

- F. R. B. Atkinson, M.D., C.M.
- O. Bruce, M.R.C.S., L.R.C.P.
- S. Trevor Davies, M.R.C.S., L.R.C.P.
- J. R. B. Dobson, M.B., B.S., B.Sc.
- H. Evans, M.D., Ch.B., D.P.H.
- W. S. Forbes, M.B., Ch.B., D.P.H. (commenced duty 1st October, 1929).
- E. E. Norton, M.D., D.P.H. (resigned 30th September, 1929).

Assistant Medical Officers.

(Maternity and Child Welfare and School Medical Inspection and Treatment.)

Mrs. A. M. Burn, M.B., Ch.B., D.P.H.

R. N. Daniel, M.R.C.S., L.R.C.P.

- W. R. H. Heddy, M.R.C.S., L.R.C.P., D.P.H., Barrister-at-Law.

H. W. Moir, M.B., Ch.B., D.P.H.

Lieut-Col. H. L. W. Norrington, D.S.O., M.R.C.S., L.R.C.P.

Miss M. K. Ruddy, M.D., B.S., B.Sc.

Mrs. R. H. Shelley, M.B., B.S.

Miss G. Wilson, M.A., M B., Ch.B., D.P.H.

Veterinary Inspector.

(Milk and Dairies (Consolidation) Act, 1915, and Milk and Dairies Order, 1926.)

Sidney Villar, F.R.C.V.S

Senior Dental Officer.

(Maternity and Child Welfare, County Sanatoria, School Dental Treatment.)

S. J. Smith, L.D.S.

Assistant Dental Officers.

(Maternity and Child Welfare and School Dental Treatment.)

J. V. Bingay, L.D.S.

Miss I. M. Broom, L.D.S.

R. E. Cook, L.D.S.

R. V. Kingham, L.D.S.

Mrs. C. S. Leiper, L.D.S.

Inspector of Midwives and Superintendent of Health Visitors.

Miss A. A. I. Pollard

Inspector of Midwives.

Miss C. A. M. Coleman.

Tuberculosis Dis	spensar	y Nurs	es	• • •	13
Health Visitors	and Scl	hool Nu	ırses		22
Dental Nurses	• • •	• • •	• • •		6
Midwives	• • •			• • •	2

HAREFIELD SANATORIUM,

Resident Medical Superintendent.

J. R. McGregor, M.B., Ch.B., D.P.H.

Senior Assistant Resident Medical Officer.

- J. F. Landreth, M.B., Ch.B., M.R.C.P. (resigned 14th June, 1929).
- F. A. H. Simmonds, B.A., M.B., B.Ch. (promoted senior as from 15th June, 1929).

Resident Assistant Medical Officers.

- V. Feldman, M.D., B.S., D.P.H. (resigned 5th May, 1929).
- K. R. Stokes, M.R.C.S., L.R.C.P. (commenced duty 17th May, 1929).
- D. G. M. Edwards, M.B., B.S., D.P.H. (commenced duty 23rd June, 1929).

Matron.

Miss C. Woodward.

CLARE HALL SANATORIUM.*

Resident Medical Superintendent.

A. C. Tabois, M.D.

Senior Assistant Resident Medical Officer.

R. V. Cookes, L.M.S.S.A.

Resident Assistant Medical Officer.

J. T. N. Roe, M.B., Ch.B. (commenced duty 1st July, 1929).

Matron.

Miss M. Brown.

^{*} Taken over by the County Council as from 1st April, 1929

PART-TIME OFFICERS.

Consulting Obstetric Physicians.

- (1) Central Ante-natal Clinic.
- J. S. Fairbairn, M.A., F.R.C.S., F.R.C.P.
 - (2) Puerperal Fever, etc., Regulations, 1926.
- J. M. Wyatt, M.B., B.S., F.R.C.S.

Ophthalmic Surgeons.

(Maternity and Child Welfare and School Medical Inspection and Treatment.)

Mrs. S. G. Banham, M.B., B.Sc. F. A. C. Tyrrell, B.A., M.B., B.Ch., F.R.C.S.

Assistant Medical Officers.

(Maternity and Child Welfare.)

Miss K. Glyn-Jones, M.R.C.S., L.R.C.P.*

L. W. Hignett, M.B., C.M., D.P.H.

F. A. Spreat, F.R.C.S., D.P.H.

^{*} Appointed whole-time Assistant Medical Officer 1st January, 1930.

Administrative County of Middlesex.

ANNUAL REPORT OF THE COUNTY MEDICAL OFFICER FOR THE YEAR 1929.

Natural and Social Conditions.

AREA.—The Administrative County of Middlesex is 148,692 acres in extent, including inland water.

For the purposes of local government the County is divided into 33 separate sanitary areas as follows:—

4 municipal boroughs 26 urban districts with an area of 113,294 acres.

3 rural districts with an area of 35,398 acres.

The Royal Commission on London Government, which issued its report in 1923, advocated a reduction in the number of separate sanitary areas in the County by a process of amalgamation or absorption of districts, with a view to the creation of areas of such size and population as would lend themselves to more efficient administration. In the intervening period effect has been given to this recommendation in several directions, and the process seems likely to be accelerated in the not distant future by provisions of the Local Government Act of 1929. The year under review saw the disappearance as a separate unit of local government of the Rural District of Uxbridge, which was partitioned between the Urban District of Uxbridge, which absorbed the parishes of Harefield, Ickenham and parts of Hillingdon East and Cowley, and the Urban District of Yiewsley, which became enlarged by the inclusion of the parish of West Drayton, together with parts of Hillingdon East and Cowley, the new area thus formed being known as the Urban District of Yiewsley and West Drayton.

Population.—At the census which was made in 1921 the enumerated population of the County was 1,253,002. Of this number, 1,196,506 persons resided in the boroughs and urban districts and 56,496 in the rural districts. The estimated population of the Administrative County of Middlesex as calculated by the Registrar-General for the mid-year, 1929, was 1,462,650, an increase of over 40,000 above the corresponding figure for 1928. Excluding the personnel of the Army and Royal Air Force in the County, the estimated civilian population in 1929 was 1,458,810. Information regarding the enumerated population at the last two censuses and the estimated population in 1929 for each of the sanitary districts of the County is contained in the following table:—

POPULATION.

Samitany Dietmot	ictriot			Census	Census	Population, 1929, Estimated by Registrar-General.	29, Estimated r-General.
	1301100			1911.	1921.	Total.	Civilian.
Urban.							
Acton (Borough)	:	•	•	57,497	61,299	65,200	65,200
/*Brentford	•	•	•	16,571	17,032		
(*Chiswick	•	•	•	38,697	40,938	03,040	03,040
†Ealing (Borough)	•	:		61,222	67,755	104,000	104,000
Edmonton	•	:	•	64,797	66,807	75,000	75,000
Enfield	•	:	•	56,338	60,738	65,100	65,100
Feltham	•	•	•	5,135	6,326	8,048	7,708
Finchley	•	•	•	39,419	46,716	54,830	54,830
Friern Barnet	•	•	•	14,924	17,375	21,470	21,470

* The Urban Districts of Brentford and Chiswick were amalgamated on 1st April, 1927.

† The figures in square brackets represent the combined census populations of the Borough of Ealing and the Urban Districts of Greenford and Hanwell in 1911 and 1921 respectively. The two latter districts ceased to exist as separate entities on 1st October, 1926, when the Borough of Ealing became enlarged by their addition.

T	7.4	avui	w	W.	occ .	N	via		OH	0000		103.						
Population, 1929, Estimated by Registrar-General.	Civilian.		12,300	2,992	24,550	13,900	83,190	62,240	88,450	8,349	13,480	35,370	49,630	7,916	7,119	22,350	155,000	36,070
Population, 1 by Registi	Total.		12,300	2,992	24,550	13,900	83,540	63,070	88,450	8,349	14,120	35,370	49,630	7,916	7,119	22,350	155,000	36,070
Census	1921.		10,675	3,265	19,469	6,303	56,013	46,664	87,659	1,856	9,112	30,287	39,122	7,326	5,350	21,213	146,711	34,790
Census	1911.		9,220	2,417	17,074	4,261	38,806	43,313	84,592	821	6,217	26,323	33,612	6,755	4,607	17,847	137,418	29,367
			•	•	:	•	•	:	*		:	•	•	•	•	•		
			•	•	•	•	•	•	:	•	•	•	:	•	•	•	:	•
Conitonia Dietmot	Danivary District.	Urban—continued.	Hampton	Hampton Wick	Harrow	Hayes	Hendon	Heston & Isleworth	Hornsey $(Borough) \dots$	Kingsbury	Ruislip-Northwood	Southall-Norwood	Southgate	Staines	Sunbury	Teddington	Tottenham	Twickenham (Borough)

26,660	20,830	35,530	172,500	53,410	8,516 (7,886)	32,400	4,470	29,240	(4,010)	1,458,810
					Ar -					1,4
$\begin{cases} 28,200 \ddagger (24.820) \end{cases}$	20,830	35,530	172,500	53,410	8,656‡ (7,996)	32,400	4,470	29,240	(4,040)‡	1,462,650
12,919	13,433	16,187	165,674	50,707	4,843	17,656	3,134	25,063	10,643	1,253,002
10,374	11,923	10,696	154,214	49,369	4,315	14,160	2,805	21,926	9,240	1,126,465
•	•	•	•	•	•	•	•	•	•	 •
•	•	•	•	•	yton	•	:	•	•	:
•	:	•	•	•	Vest Dra	:	•	•	•	The County
•	ne	•	•	een	and V	•	smi	•	•	The
Uxbridge	Wealdstone	Wembley	Willesden	Wood Green	Yiewsley and West Drayton	Rural. Hendon	South Mimms	Staines	Uxbridge	

‡ The Rural District of Uxbridge was abolished on 31st March, 1929, when part of the district was transferred to Uxbridge Urban District and the remainder to the Urban District of Yiewsley and West Drayton; it has been necessary, for the purpose of calculating the birth-rates and death-rates of the districts concerned to make adjustment of the several populations estimated at the mid-year. The necessary figures have been furnished by the Registrar-General, and are given in italics.

Number of Inhabited Houses.—The total number of dwellings occupied by private families in Middlesex as recorded in the census return of 1921 was 236,266, and the average number of rooms per dwelling was 5.90.

Number of Families or Separate Occupiers.—The number of private families occupying the above premises in 1921 was 298,437, the average number of families per dwelling was 1·26, the average number of rooms per person was 1·14, whilst 7·8 per cent. of the private family population were living more than two persons per room.

RATEABLE VALUE AND SUM REPRESENTED BY A PENNY RATE.—The rateable value of the County in 1929 was £13,492,938, the product of 1d. rate for 1929 being £55,412.

VITAL STATISTICS.—Before dealing in more detail with the vital statistics of the County, the following table is inserted as required by the Ministry of Health:—

Extract from Vital Statistics of the year 1929.

Live Births-	Mary day and			Total.	$\mathbf{M}.$	•	F.
Legitim	ate	• • •	• • •	22,386	11,54	1 9 1	0,837
Illegitin	nate	• • •	• • •	945	4'	75	470
Birth-rate			• • •	• • •			16 ·0
Deaths	• • •	• • •	• • •	• • •			6,705
Death-rate	• • •	• • •	• • •		• • •		11.5
Number of childbirth		dying	in,	or in	consec	quenc	e of,
	epsis						27
	ther cause				• • •	• • •	4 9
Deaths of is	nfants u	nder or	ne ye	ear of ag	ge per	1,000	live
Legitim	ate	• • •	• • •	•••		• • •	54
Illegitim				• • •	• • •		108
	Tot	tal	• • •	• • •	• • •		56
Deaths	from mea	sles (all	lage	s)		• • •	6
Deaths i	from who	oping-c	ough	(all age	s)		210
Deaths 1	from diar	rhœa (u	ındeı	2 years	of age)	147

BIRTHS AND BIRTH-RATES.—The corrected number of births belonging to Middlesex and occurring during 1929 was 23,331 (12,024 males and 11,307 females). This number is equivalent to a birth-rate of 16:0 per 1,000 of the population (the same rate as in 1928). The number of illegitimate births registered was 945 (475 males and 470 females), or an illegitimate birth-rate of 0:65 per 1,000 of the population. The ratio of legitimate to illegitimate births is 23:7 to one. The corresponding figures for 1928 were:—Total illegitimate births, 892, illegitimate birth-rate 0:63, ratio of legitimate to illegitimate births 24:4 to one.

The following table gives the birth statistics for the last five years for Middlesex, London, the Great Towns, and England and Wales:—

Voor	The C	ounty.	London.	Great Towns.	England and Wales.
Year.	Births.	Rate per 1,000 living.	Rate per 1,000 living.	Rate per 1,000 living.	Rate per 1,000 living.
1925 1926 1927 1928 1929	21,533 21,703 21,123 22,665 23,331	$16 \cdot 5$ $16 \cdot 3$ $15 \cdot 6$ $16 \cdot 0$ $16 \cdot 0$	$ \begin{array}{c} 18 \cdot 0 \\ 17 \cdot 1 \\ 16 \cdot 1 \\ 16 \cdot 2 \\ 15 \cdot 7 \end{array} $	$ \begin{array}{c c} 18 \cdot 8 \\ 18 \cdot 2 \\ 17 \cdot 1 \\ 16 \cdot 9 \\ 16 \cdot 6 \end{array} $	$18 \cdot 3$ $17 \cdot 8$ $16 \cdot 7$ $16 \cdot 7$ $16 \cdot 3$

From the above table it will be seen that the number of births occurring in Middlesex during 1929 showed an increase over 1928 pari passu with the estimated growth of population. The birth-rate for the two years, therefore, has remained constant. The birth-rates for London, the great towns and the country as a whole, however, have shown an appreciable further decline.

Particulars of the number of births and birth-rates in each sanitary district of the County are set out in the table which follows, the districts being arranged in descending order of magnitude of the birth-rate:—

BIRTHS AND BIRTH-RATES IN EACH DISTRICT, 1929.

DISTRICT.	Net number.	Rate per 1,000 living.	District.	Net number.	Rate per 1,000 living.
1					
Yiewsley and West			Brentford and Chiswick	955	7
Drayton	203	*25.4 (24.4)	Enfield	1,047	16.1 (15.8)
Hayes	314	22.6(20.8)	Ruislip-Northwood	226	16.0(15.9)
Kingsbury	179	$21 \cdot 4 (24 \cdot 5)$	Acton (Borough)	1,026	15.7 (15.5)
Wealdstone	413	19.8 (20.1)	Twickenham (Borough)	556	15.4 (16.4)
Uxbridge (Rural)	74	*18.3(20.3)	Staines (Urban)	121	15.3 (17.9)
Hendon (Urban)	1,508	$18.1 \ (15.5)$	Teddington	336	15.0 (15.3)
Staines (Rural)	524	17.9 (17.9)	Ealing (Borough)	1,529	14.7 (14.9)
Feltham	142	9.	South Mimms (Rural)	65	14.5 (13.2)
Uxbridge (Urban)		*17.3 (16.0)	Friern Barnet	307	14.3 (13.9)
Edmonton	1,299		Hampton	174	14.1 (15.0)
Heston and Isleworth	1,078	$17 \cdot 1 \ (I7 \cdot I)$	Southall-Norwood	497	14.1 (15.4)
Wembley	209	17.1 (18.7)	Hornsey (Borough)	1,221	$13.8 \ (13.6)$
Hendon (Rural)	553	.1 (17	Wood Green	721	13.5 (13.9)
Harrow	410	<u></u>	Finchley	704	12.8 (14.3)
Tottenham	2,561	$(I \cdot 9I) \cdot 9I$	Hampton Wick	35	11.7 (11.7
Willesden	2,842	16.5 (16.2)	Southgate	557	$11 \cdot 2 \ (12 \cdot 6)$
Sunbury	117	16.4 (I7.4))		,
•					

Figures in brackets indicate birth-rates in 1928.

* These rates are based on the Registrar-General's adjusted population figures, which take account of the Rural District of Uxbridge being transferred partly to Uxbridge Urban District and partly to the Urban District of Yiewsley and West Prayton.

STILL-BIRTHS.—The number of still-births registered in 1929 was 786, which is equivalent to a rate of 0.54 per 1,000 of the population as compared with the rate of 0.68 for the whole country.

Deaths and Death-Rates (All Causes).—The corrected number of deaths, belonging to the County, occurring during 1929 was 16,705, or 2,655 more than occurred in the course of the previous year. This corresponds to a death-rate of 11.5 per 1,000 persons living, and it is necessary to go back to the year 1918 to find so high a figure. A large increase in mortality was experienced all over the country, as is shown in the following table:—

Year.	The C	ounty.	London.	Great Towns.	England and Wales.
Tear.	Deaths.	Rate per 1,000 living.	Rate per 1,000 living.	Rate per 1,000 living.	Rate per 1,000 living.
1925 1926 1927 1928 1929	13,192 12,941 14,325 14,050 16,705	10·1 9·8 10·6 9·9 11·5	$11 \cdot 7$ $11 \cdot 6$ $11 \cdot 9$ $12 \cdot 1$ $13 \cdot 8$	$12 \cdot 2$ $11 \cdot 6$ $12 \cdot 2$ $11 \cdot 6$ $13 \cdot 7$	$12 \cdot 2$ $11 \cdot 6$ $12 \cdot 3$ $11 \cdot 7$ $13 \cdot 4$

In the early months of the year the whole country was swept by a wave of influenza, unequalled in degree and severity since the world-pandemic of 1919. The increased mortality in Middlesex in 1929 is accounted for by the increase in deaths due to influenza itself, and to diseases of the heart and of the respiratory organs (pneumonia, bronchitis, &c.), i.e., diseases which are prone to occur as sequelæ of influenza. The death-rate from cancer has remained constant for two years; that from tuberculosis shows an appreciable increase, which is entirely confined to increased mortality from pulmonary tuberculosis, and may also be associated with the influenza epidemic.

The death-rates (per 1,000 persons living) of the eight principal causes of death for the past five years are as follows:—

	1925.	1926.	1927.	1928.	1929.
Heart disease	1 · 64	1·52	1·73	1·73	2·32
	1 · 39	1·37	1·40	1·33	1·33
	0 · 68	0·67	0·78	0·65	0·88
	0 · 84	0·86	0·88	0·76	0·83
	0 · 64	0·53	0·68	0·45	0·64
	0 · 25	0·18	0·46	0·16	0·62
	0 · 40	0·39	0·49	0·56	0·47
	0 · 59	0·56	0·50	0·44	0·47

Detailed information as to the different diseases which contributed towards the total number of deaths and the age groups in which these deaths occurred is given in the following table:

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE IN THE ADMINISTRATIVE COUNTY OF MIDDLESEX, 1929.

Causes of Death.	All Ages.	-0			2	22	23.	-07	65	
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)
1. Enteric Fever	80		general parameters		gridos de la filo	,1	ŭ	গ	1	1
2. Smallpox	ಣ	1					CI	}		
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ć	142	9	2	80	80	ಣ	0.7	J amed]
1997 T. Influenza	906	10	18	16	12	28	126	261	198	237
∞	38					9	1.0	00		ಣ
	828	10	ന	ಣ	9	ಣ	್		-	COMPANY
Cin.	1,058	9	67	20	12	238	443	306	7	10
tory System										

	65- 75-	(10) (11)	6	599 375	57 28		1,008 1,312			214 170	46 41	24 10	80	01
-	45-	(6)	19	804	49	193	803	119	159	326	84	62	<u> </u>	96
	25—	(8)	22	151	10	24	193	7	23	150	27	30	7	25
	15-	(7)	25	ಣ್ಣ	2 rc		43	1	4	34	4	ಣ	67	12
		(9)	24	\ 1	7		19		1	34	, i		್ರಾದ	75
	2—	(5)	24	07 =	+		distribution de la constitución		<u>ರಾ</u>	72	7	The second secon	CI	4
		(4)	19	ଠା					10	106	ಬ		12	ಯ
	-0	(3)	16			1			48	172	4		135	,——
1117	Ages.	(2)	157	1,940	159	689	3,380	269	936	1,278	214	147	200	104
	Causes of Death.	(1)	11. Other Tuberculous Diseases	lignant Disease		orrhage, &c.	Heart Disease	•			20. Other Respiratory	21. Ulcer of Stomach or Duo-	22. Diarrhæa, &c	23. Appendicitis and Typhli-

98		-	1		ರಾ	98	662	1	4,099	1
14		-			23	73	450	-	3,572	
15.9			<u>ත</u>		68	109	619	63	4,268	
60 70	22	42	က		19	91	244		1,796	
ಕ್ಷಾ ಬ್	ΣĊ	7	က			96	68		099	
		district only of the last	4			99	85		413	
	*	To the state of th	ಸರ		de de la constitución de la cons	18	35	1	295	
-		or and a second	ಣ		and the same of th	7	21	1	290	
		Martin Martin	594			23	194	H	1,312	
63	27	49	615		174	569	2,399	ಸರ	16,705 1,	
25. Acute and Chronic	Nephritis 26. Puerperal Sepsis	27. Other Accidents and	Diseases of Pregnancy and Parturition 28. Congenital Debility and	Malformation, Prema- ture Birth	29. Suicide	30. Other Deaths from	Violence 31. Other Defined Diseases 2,399	32. Causes ill-defined or un- known	auses	

DEATHS' AND DEATH-RATES IN EACH DISTRICT, 1929.

	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
	Under 1 year		At all		
		of age.		ages.	
District.		- Doto		Rate	
191801100.		Rate		per	
	No.	per 1,000	No.	1,000	
		births.		living	
		DILUIS.		HAIDS	
Urban—				-	
Acton (Borough)	85	83	831	12.7	
Brentford and Chiswick	59	62	848	14.4	
Ealing (Borough)	73	48	1,296	12.5	
Edmonton	81	62	795	10.6	
Enfield	63	60	691	10.6	
Feltham	11	77	81	10.5	
Finchley	32	45	604	11.0	
Friern Barnet	19	62	220	10.2	
Hampton	9	52	143	11.6	
Hampton Wick	1	29	33	11.0	
Harrow	15	37	237	9.7	
Hayes	14	45	139	10.0	
Hendon	67	44	861	10.3	
Heston & Isleworth	50	46	769	12.4	
Hornsey (Borough)	66	54	1,130	12.8	
Kingsbury	9	50	52	$6 \cdot 2$	
Ruislip-Northwood	P7	31	124	9.2	
Southall-Norwood	0.0	52	317	9.0	
Southgate	27	48	534	10.8	
Staines	1	33	86	10.9	
Sunbury		43	71	10.0	
Teddington	. 18	54	270	12.1	
Tottenham	165	64	1,844	11.9	
Twickenham (Borough)	. 34	61	487	13.5	
Uxbridge		65	233	10.0	
Wealdstone	. 28	68	192	9.2	
Wembley	. 33	54	350	9.9	
Willesden	. 168	59	2,021	11.7	
Wood Green	1	60	605	11.3	
Yiewsley and West Drayton		54	94	11.9	
•					

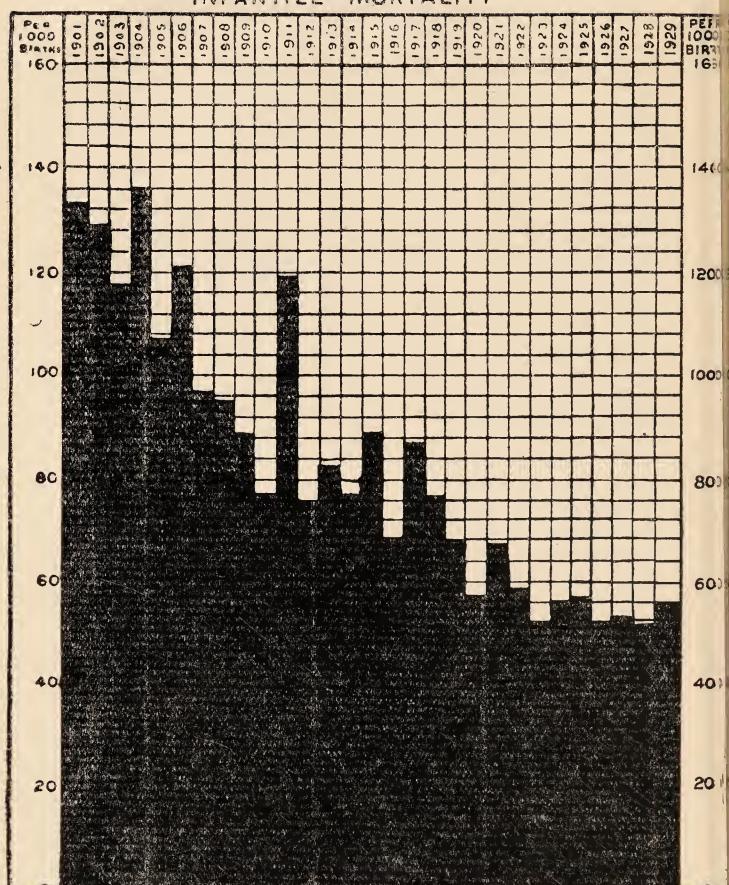
			Under 1 year of age.		At all ages.	
District.			No.	Rate per 1,000 births.	No.	Rate per 1,000 living.
Rural—		Taylor plants				
Hendon			23	42	292	9.0
South Mimms			1	15	50	11.2
Staines		• • • }	29	55	344	11.8
Uxbridge		• • •	8	108	61	15.2
The County	• • •	• • •	1,312	56	16,705	11.5

Infantile Mortality.—The number of deaths of infants under one year of age occurring during 1929 was 1,312, equivalent to an infantile mortality rate of 56 per 1,000 births. Although this figure is somewhat higher than that for 1928, which was the lowest on record, it compares very favourably with the corresponding rates for London, the Great Towns, and the country as a whole.

	The County.		London.	Great Towns.	England and Wales.	
Year.	Births.	Deaths under 1 year.	Rate per 1,000 births.	Rate per 1,000 births.	Rate per 1,000 births.	Rate per 1,000 births.
1925 1926 1927 1928 1929	21,533 21,703 21,123 22,665 23,331	1,220 1,122 1,125 1,168 1,312	57 52 53 $51 \cdot 5$ 56	67 64 59 67 70	79 73 71 70 79	75 70 69 65 74

The table on pages 11-13 gives detailed information regarding the causes of death in the 1,312 cases indicated above. As

INFANTILE MORTALITY



PROPORTION OF DEATHS UNDER I YEAR OF AGE PER 1,000 BIRTHS.

in previous years, in a large proportion of this number, viz., 594, or 45·3 per cent., death was ascribed to congenital debility, malformation or premature birth; conditions which in our present state of knowledge for the most part are not preventable. Infantile diarrhœa was the cause of death in 135 instances, or 10·3 per cent. of the total, a higher proportion than has obtained for some years. Having regard, however, to the prolonged heat and dryness of the summer, that the number of infant deaths from this disease has not very greatly exceeded this total is, essentially, evidence of the progress made in the control of infantile mortality during recent years. Whooping cough led to the death of 89 infants. As has been pointed out on many previous occasions, this disease is very fatal to young babies: over 40 per cent. of the total deaths occurred amongst infants under one year of age.

Information as to the number of deaths of infants and the infantile mortality rate in each sanitary district in the County is given on pages 14 and 15, whilst on page 16 appears a chart indicating the variations in the infantile mortality rate in Middlesex since the beginning of the century.

MATERNAL MORTALITY.—The number of deaths of women from conditions due to, or associated with, child-birth was 76, or 10 fewer than the number recorded in 1928. This corresponds to a maternal mortality rate of 3.26 per 1,000 births. Although this figure is substantially lower than that for the previous year, it still remains unsatisfactorily high. In the following table maternal deaths are divided into two groups: those due to puerperal infection and those due to other causes:—

Year.		Rate per 1,000 births.	1		Total. Maternal mortality-rate.	
1925 1926 1927 1928 1929	25 30 24 42 27	1·16 1·38 1·14 1·85 1·16	33 34 40 44 49	$ \begin{array}{c cccc} & 1 \cdot 53 \\ & 1 \cdot 57 \\ & 1 \cdot 89 \\ & 1 \cdot 94 \\ & 2 \cdot 10 \end{array} $	58 64 64 86 76	$2 \cdot 69$ $2 \cdot 95$ $3 \cdot 03$ $3 \cdot 79$ $3 \cdot 26$

In 1928 Middlesex participated in an increase in the puerperal sepsis rate which affected the whole country and the cause of which at present remains unexplained. In 1929 the mortality rate from puerperal sepsis in this county resumed its wonted level, but the death-rate resulting from other accidents and diseases of pregnancy and parturition showed a decided increase. The figures are depressing, particularly when it is borne in mind that probably some 50 per cent. of maternal deaths are preventable.

Inspection and Supervision of Food.

The powers entrusted to County Councils with regard to supervision of food supplies relate to (a) certain aspects of the production and sale of milk, and (b) adulteration.

(a) MILK SUPPLY. (1) The Milk and Dairies (Consolidation) Act, 1915. In the course of the year, 304 samples of milk from Middlesex producers or retailers were examined by animal inoculation at the Lister Institute of Preventive Medicine for the presence of tubercle bacilli. In 27 instances the result was indeterminate owing to the premature death from some intercurrent infection of the animal inoculated. In the remaining 277 samples in which examination was complete, living tubercle bacilli were

demonstrated in 21. The significance of this investigation may perhaps be better appreciated by expressing the result obtained as follows:—In unselected samples of milk purchased in Middlesex, living and virulent tubercle bacilli were found to be present in one sample out of every thirteen.

As can readily be understood the task of tracing to their origin tubercle bacilli present in a given sample of milk is often a matter of extreme difficulty, particularly when it is remembered that a large quantity of retailed milk is the mixed product of several farms situated perhaps in different parts of the country. Moreover, a cow which is yielding tuberculous milk does not invariably present obvious clinical signs of the disease; and the subject is further complicated by the fact that a cow will sometimes excrete tubercle bacilli in her milk only intermittently.

In 8 of the 21 positive samples the affected animals were traced, 12 cows being found on the farms concerned to be suffering from tuberculosis within the terms of the Tuberculosis Order and these were slaughtered. Six of these samples had been produced in Middlesex and two in other counties. In two further instances the affected cows, three in number, were discovered independently by Mr. Villar in the course of his routine duties, and these likewise were slaughtered. In the eleven remaining cases it was not found possible to determine the source of infection; in five of these the milk had been produced outside the county.

(2) The Milk and Dairies Order, 1926.—On 1st January, 1929, Mr. Sidney Villar, F.R.C.V.S., the newly-appointed veterinary inspector of the County Council, commenced the work of routine inspection and supervision of dairy herds in the County. Mr. Villar was able to visit practically all the cowkeepers' premises four times during the course of the year, apart from a very large number of additional visits which were necessitated as result of previous inspections. Mr. Villar's report for the year 1929 is as follows:—

The number of registered cowkeepers' premises periodically visited is 242 and the number of cows kept thereon is approximately 5,250.

During the year, 15,783 inspections of individual cows have been made and 71 cows affected with tuberculosis have been discovered, out of which 68 have been slaughtered under the Tuberculosis Order of 1925.

Of the 71 cases of tuberculosis, 69 have been diagnosed by the examination of the animal or the microscopic examination of her milk, whilst in the case of 2 cows the existence of tubercle has been determined by inoculation of guinea pigs. During the year the milk of only 4 cows has been subjected to this biological test, of which 2 were positive and 2 negative.

In addition to the above, 30 cows have been found suffering from suppuration (abscess) in their udders, and 66 cases of acute mastitis ("garget") have been dealt with.

Of sub-acute and localized mastitis (streptococcic) 211 cases have been the subject of notification to the owners.

One scrious outbreak of contagions mastitis occurred, in which 21 cows were affected, there has also been one outbreak of "cow-pox" in which 10 cows in a herd of 16 were affected. In both these outbreaks frequent inspections of the animals were made and steps taken to restrict the sale of the milk of affected cows and to prevent the spread of the disease to healthy animals.

24 other cows on 15 different premises have been found affected with "cow-pox"; in each case steps have been taken to prevent the spread of this disease, which, although not true variola, is very readily spread from cow to cow by the hands of milkers.

Septic conditions of the uterus following parturition or abortion in 9 cows have been notified to the owners.

"Boils" on the udder in 18 cases and severe sores on the teats of 14 cows were dealt with. Only one case of actinomycosis was observed, and here the cow's udder was not involved.

During this first year of periodical inspection, whilst a few cowkeepers resent, the majority appear to welcome the visits of the veterinary inspector, and especially so when the producer of milk is also the retailer.

I have found that on some premises the conditions for the production of healthy, clean milk is extremely good, whilst on other premises the cows and the milkers leave very much to be desired in the matter of cleanliness.

The number of cows in Middlesex is approximately 5,250 but as some 20–25 per cent. of these changed hands or left the County during the year, the actual number of cattle which have been kept under observation is in the

neighbourhood of 6,500. Amongst these animals were found 76 with signs or symptoms which led the veterinary inspector to suspect the presence of tuberculosis in one or other form. These were referred to the County Council's inspectors under the Diseases of Animals Acts and the Tuberculosis Order of the Ministry of Agriculture, with the following results:—

- 6 were deemed not to be suffering from tuberculosis, but one of these later was found to be so suffering, and was slaughtered by the owner.
- 4 were found to be tuberculous, but not to such a degree as to bring them within the terms of the Tuberculosis Order of the Ministry of Agriculture. One of these later became so much worse that it complied with the terms of the Order and was slaughtered by the owner.
- 66 were found to be suffering from tuberculosis as defined by the Order, and were slaughtered under instructions from the County Council.

It will be seen, therefore, that the activities of the Council's veterinary inspector have resulted in the removal of 68 tuberculous cattle from the Middlesex herds.

Attention should be drawn to the fact that in no less than 24 of the slaughtered animals, post-mortem examination, in the opinion of the veterinary surgeon who carried out the examination, indicated the presence of tuberculous disease of the udder, or prior to slaughter the animals had been proved to be giving tuberculous milk.

The beneficial effects of veterinary supervision are not limited to the discovery of tuberculosis only, and the finding of 404 animals suffering from various septic conditions, &c., mostly affecting the udder, in my opinion would in itself justify the continuance of regular supervision of dairy herds. In all these cases suitable instructions were given to the dairymen concerned, and the steps taken by the Council's officers must of necessity have had a beneficial effect upon the bacterial content of the milk produced in Middlesex. Nor must the educative aspect of the veterinary inspector's visits be lost sight of. Advice given by an

experienced veterinary surgeon, such as the Council's present inspector, must in the end lead to definite improvement in the unsatisfactory conditions with regard to milk production, which still are found to obtain in many dairies in the County.

(3) The Milk (Special Designations) Order, 1923.—Six licences for the production of "certified" milk have been granted by the Ministry of Health to Middlesex milk producers during 1929. The farms which are licensed are situated in the Urban Districts of Enfield, Finchley, Ruislip-Northwood, and Wembley, and the Rural Districts of Hendon and Uxbridge. No producer in the County held a licence during the year to sell "Grade A (Tuberculin Tested)" milk.

Two milk producers have been licensed by the County Council for the production of "Grade A" milk. The farms are situated in the Urban District of Finchley and the Rural District of Hendon respectively. A producer in the late Rural District of Uxbridge who previously had been the holder of a license for the production of Grade A milk decided not to renew his application for license in 1929

owing to lack of a market.

- (4) The Tuberculosis Order, 1925.—This Order of the Minister of Agriculture is administered by the Diseases of Animals Sub-Committee of the County Council. From information supplied by the Clerk of the County Council, it appears that during 1929 visits were made by the Council's veterinary officers to 130 premises on which the presence of bovine tuberculosis was suspected and 1,622 animals examined. Of this number, 108 were found to be suffering from tuberculosis as defined by the Order and were slaughtered. The sum of £839 11s. 6d. was paid to the owners as compensation. The number of tuberculous cows slaughtered in 1929 was almost 70 per cent. in excess of the number so dealt with in the previous year; this increase is largely due to the work of routine inspection of dairy herds, carried out by Mr. Villar, to which reference already has been made.
- (5) Education in Clean Milk Production.—The Middlesex Education Committee have continued their policy of

instructing farmers in the County in the methods to be employed in the production of clean milk. Mr. E. Rea, the County Council's Agricultural Organiser, has devoted much time to this end and in the course of numerous visits to farms, has given advice and practical assistance to milk producers.

The Fifth Clean Milk Competition was held in 1929.

- (b) ADULTERATION.—The following information regarding work carried out during 1929 by the County Council in connection with sophistication of food, &c., has been supplied by Mr. R. A. Robinson, Barrister-at-law, Chief Officer of the Public Control Department:—
- (1) FOOD AND DRUGS (ADULTERATION) ACT, 1928. In the following table are set out particulars of samples (formal and informal) submitted to the County Analyst by officers of the Public Control Department of the County Council during the year:—

	Formal Samples.		Informal Samples.	
Article.	Taken.	Adul- terated.	Taken.	Adulterated.
Ammoniated Quinine Tablets				1
Apples				
Arrowroot *Beer) 1	
*Biscuits Boric Ointment				
*Butter	1		110	3
Cheese Cinnamon			4	
*Cream			4	

	Formal	Samples.	Informal Samples.	
${f Article}.$	Taken.	Adul- terated.	Taken.	Adul- terated.
*Crèam, artificial Eggs Eucalyptus Oil Gin Honey	7	4	$egin{array}{c} 1 \\ 8 \\ 1 \\ 17 \\ 1 \end{array}$	2
Hydrogen Peroxide Iodine, Tincture of *Lemon Cordial Linseed, Liquorice and Chlorodyne	<u>1</u>	1	1 1 1	
*Margarine *Meat *Milk *Milk, sterilized Mustard Pepper Rum *Salt *Sausages *Sausages, cooked *Seasoning Sugar Tea *Treacle	7 44 994 28 — 11 10 1 — 1 — 1	5 78 — — 6 — 2 —	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	17
Whisky Zinc Ointment Totals	12	4 — 101	$\begin{array}{c} 2\\1\\ \hline 315 \end{array}$	1 ————————————————————————————————————

^{*} See page 25.

In addition to the above, over 3,000 samples were examined during the year by officers of the Public Control Department.

- (2) Public Health (Condensed Milk) Regulations, 1923 and 1927.—No action was taken under these Regulations during the year.
- (3) Public Health (Dried Milk) Regulations, 1923 and 1927.—No action was taken under these Regulations during the year.
- (4) Public Health (Preservatives, &c., in Food) Regulations, 1925 and 1927.—In the foregoing table articles marked * were also examined for the presence of preservatives. All the samples of meat and sausages shown as adulterated contained preservatives.

Inféctious Diseases.

NOTIFIABLE DISEASES OTHER THAN TUBERCULOSIS.

SMALLPOX.—Smallpox of the milder type, prevalent in the north of England, was introduced into London in the early part of 1928 and by the end of 1929 had firmly established itself and become endemic in the metropolitan area. During 1929, in London and its environs, over 3,000 cases were notified, and this number will certainly be considerably exceeded in 1930. In Middlesex, 80 cases with three deaths, occurred, of which number, 47 were in Willesden. In most instances the disease was mild in character, but included in the number 80 referred to above were four cases of classical or Asiatic smallpox, the patients being contacts to a case of this disease which occurred on board the S.S. "Tuscania" in the course of a voyage from Bombay to Glasgow in April. Particulars of these cases are as follows:—

Case I, Acton.—Female, age and vaccinal condition unknown. The onset was acute and the woman, who was pregnant, aborted and died shortly afterwards of hæmorrhagic smallpox. As the characteristic eruption did not

have time to develop before death supervened, the nature of the condition was only recognised post-mortem.

Case II, Acton.—Male, aged 29, husband of above, vaccinated in infancy, became acutely ill with confluent smallpox at the same time as Case I. He was removed to hospital, where he died seven days later.

Case III, Teddington.—Male, aged 43, vaccinated in infancy and re-vaccinated several times. The case was a very mild one and recovered.

Case IV, Hendon Urban.—Male, aged 30, vaccinated in infancy and revaccinated. Very mild case—recovered.

Cases I, II and III were passengers on board the S.S. "Tuscania; Case IV was a steward on the same vessel.

For many years the services of Dr. P. McConnell Wanklyn, the expert adviser upon smallpox on the staff of the London County Council, had been placed at the disposal of the local sanitary authorities in Middlesex in connection with the diagnosis of smallpox—services which were very greatly appreciated. In April, 1929, this arrangement came to an end in consequence of the illness and subsequent untimely death of Dr. Wanklyn. Since that date the Deputy County Medical Officer on a number of occasions has visited, in consultation with medical officers of health of Middlesex districts, cases of suspected smallpox in which the diagnosis presented points of difficulty.

SCARLET FEVER.—During the year, 4,553 cases of scarlet fever were notified, equivalent to a case-rate of 3·12 per 1,000 persons living. The incidence was somewhat higher than was experienced in the previous year and is, in fact, the highest recorded since 1922. The cases were fairly evenly distributed throughout the County, no particular district having an undue preponderance of cases. The type of disease has continued to be benign and in spite of the high incidence only 20 fatal cases were recorded, equivalent to a case-mortality rate of 0·44 per cent., or a death-rate of 0·01 per 1,000 persons living. The death-rate from scarlet fever recorded for London, the Great Towns and for England and Wales was 0·02 per 1,000.

The following table gives the County figures during the past five years:—

Year.	Cases.	Deaths.	Case-rate per 1,000 living.	Death-rate per 1,000 living.	Case Mortality per cent.
1925 1926 1927 1928 1929	2,264 2,584 3,063 4,146 4,553	12 10 16 18 20	1.74 1.95 2.27 2.93 3.12	0·01 0·01 0·01 0·01	$0.5 \\ 0.4 \\ 0.5 \\ 0.4 \\ 0.4$

Detailed information as to the incidence of, and deathrate from, scarlet fever in each sanitary district in the County is given in the table on pages 29–31.

DIPHTHERIA.—The number of cases of diphtheria notified in the County during the year was 2,857, equivalent to a case-rate of 1.96 per 1,000 persons living. The number of fatal cases was 142, or a case-mortality rate of 5 per cent. and a death-rate of 0.10 per 1,000 living. Both the incidence and the case-mortality of the disease were somewhat higher than of recent years. The death-rate from diphtheria in 1929 for the whole country and for London was 0.08 per 1,000 and for the Great Towns 0.09 per 1,000.

The following table indicates the prevalence in the County of diphtheria in each of the last five years:—

Year.	Cases.	Deaths.	Case-rate per 1,000 living.	Death-rate per 1,000 living.	Case Mortality per cent.
1925 1926 1927 1928 1929	1,763 $2,651$ $2,205$ $2,500$ $2,857$	108 129 82 112 142	$1 \cdot 35$ $2 \cdot 00$ $1 \cdot 63$ $1 \cdot 76$ $1 \cdot 96$	$ \begin{array}{c} 0.08 \\ 0.10 \\ 0.06 \\ 0.08 \\ 0.10 \end{array} $	$6 \cdot 1 \\ 4 \cdot 9 \\ 3 \cdot 7 \\ 4 \cdot 5 \\ 5 \cdot 0$

The following table affords information as to the prevalence of, and mortality from, diphtheria in each sanitary district in the County. The highest incidence occurred in the Urban District of Heston and Isleworth (5.85 cases per 1,000 living).

ENTERIC FEVER.—During the year there were notified 91 cases of typhoid and the paratyphoid fevers and of this number eight terminated fatally. These figures correspond to a case-rate of 0.06, a death-rate of 0.01 per 1,000 persons living and a case-mortality rate of 8.8 per cent. The following table gives statistical information regarding enteric fever for each sanitary district in the County.

COUNTY AND DISTRICT RATES, 1929.

Fever.
Enteric,
Diphtheria,
ever,
Scarlet F

					Num	ber o	Number of cases notified, with case-rate per 1,000 living. Number of deaths recorded, with death-rate per 1,000 living.	notified	, with c ed, with	ase-ra	te per h-rate	1,000 per 1,	living. 000 livi	ng.	
District	, +			The state of the s	Scarlet Fever.	Feve	r.		Diphtheria.	heria.			Enteric Fever.	Feve	er.
				CE Not	Cases Notified.	Be.	Deaths Recorded.	C. Not	Cases Notified.	D Rec	Deaths Recorded.	No	Cases Notified.	De	Deaths Recorded.
				No.	Rate.		No. Rate.	No.	Rate.	No.	Rate. No.	No.	Rate.	No.	Rate.
Urban Districts—				,											
Acton (Borough)	:	i	:	231	3.54		0.03	48	0.74	П	0.03	1	0.11	H	0.05
Dienviord and Chiswick	•	i	:	801	1.83	-	0.02	101	1.71	7	0.12	ō	0.15	H	0.05
Ealing (Borough)	i	:	÷	233	2.24	က	0.03	91	0.87	00	80.0		0.01		1
Edmonton	* * * * * * * * * * * * * * * * * * * *	:	:	283	3.77	'	1	157	5.09	12	0.16	ಣ	0.04		-
Faltham	:	:	:	168	2.58	-	0.02	86	1.37		0.02	-	0.02	1	
Finchlev	• •	:	:	156		-	10.0	17	2.21	2/ G	0.26	- L	0 · I	-	0
Friern Barnet				71	3.31	1	70	12	0.56	4	#0.0 	- 4	61.0	-	70.0
Hampton	*	•	:	55	4.47	-	80.0	15	1.22		1		0.08		

		27.7			W							***************************************
		Numb Numb	er of c	ases no	tified, recorde	Number of cases notified, with case-rate per 1,060 living. Number of deaths recorded, with death-rate per 1,000 living.	use-rat deat	e per 1 1-rate 3	,060 li per 1,0	ving. 00 livi	ng.	
	02	Scarlet Fever.	Jever.			Diphtheria,	eria.		A A	nteric	Enteric Fever.	
District	Ca Noti	Cases fotified.	Deaths Recorded	ths ded.	Cases Notified	ses fied.	Deg Reco	Deaths Recorded.	Cases Notified	es ied.	Deaths Recorded	das led.
	No.	Rate.	No.	Rate.	No.	Rate.	Š	Pate.	No. B	Rate.	No.	Rate.
Urban Districts—continued.												
Hampton Wick	199	0.35 35 10.00		1	٠٠ <u>-</u>	1.00			1 -			
Haves		3 K 5 C 7 S			= 1	0.50 0.50		0.07		0.07		
	304	3.65	6.1	0.05	157	1.89	1	80.0	12 (0.14	1 0.	0.01
Heston & Isleworth	. 227	3.65		0.02	364	5.85	23	0.37).10		
Hornsey (Borough)		2.78			129	1.46	∞	0.00	70 0	90.0		1
Kingsbury		.32			4.0	89.1			-		-	ŀ
Kuishp-Northwood Southall Northwood	121	96.8			× =	1.34	c	0.08		70.0		
Southgate		2.68	0.7	10.0	2 2	0.45	1 61	0.07	- 01	0.0		
:		4.55			70	0.63		0.13]	
Sunbury		3.37			ବଦ	0.42	-	0.14				
Teddington	20	2.24		0.04	57	2.555			67	60.0	-]

0.04		0.01
0 0		20
0.03 0.09 0.10 0.08 0.03 0.03	0.12	90.0
1 - 6 3 2 2 3 3	4	91
0.20 0.11 0.04 0.08 0.08 0.04 0.13	0.09	0.10
12 22 1	en - 9	142
2.59 1.76 0.72 1.49 2.39 3.68	2.59 0.67 1.16 1.75	1.96
557 94 141 153 128 29	8 4 co 4 c	2,857
$\begin{array}{c c} & 0.05 \\ \hline 0.02 \\ \hline 0.02 \\ \hline \end{array}$	0.00	0.01
1 -	2 -	20
2 . 8 2 . 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.15 1.57 1.81 1.50	3.12
533 124 69 141 121 574 187	102 7 53 6	4,553
		•
	!!!!!	0 4 0
wgh) Dray		:
(Boro		•
Tottenham (Borough) Uxbridge Wealdstone Willesden Wood Green Xiewsley and West Drayton	Rural Districts. Hendon South Mimms Staines Uxbridge	THE COUNTY

The above statistics were supplied by the Registrar-General.

Puerperal Fever and Puerperal Pyrexia.—During the year 58 cases of puerperal fever (2·5 per 1,000 births) and 188 (net) cases of puerperal pyrexia (8·1 per 1,000 births) were notified. The figures for the previous year were as follows:—Puerperal fever notifications, 63 (2·8 per 1,000 births); puerperal pyrexia net notifications, 177 (7·8 per 1,000 births).

The number of deaths from puerperal sepsis during 1929 was 27, equivalent to a maternal mortality rate from sepsis of 1·16 per 1,000 births. This figure is considerably below that for the previous year (1·85 per 1,000 births), when, for some reason, the mortality rate from puerperal sepsis rose to an exceptional height, not in Middlesex alone, but throughout the country.

Ophthalmia Neonatorum.—The number of notifications during 1929 was 135, or a case-rate of 5·79 per 1,000 births. The comparative figures for 1928 were 124 notifications (corresponding to 123 cases) and a case-rate of 5·43 per 1,000 births. The after-history of all the cases as regards the effect of the disease upon vision is not available; but in so far as the 67 cases, which occurred in the practice of certified midwives, are concerned, it has been ascertained by enquiry that no injury to vision has resulted in any instance.

Measles.—This disease is not compulsorily notifiable throughout the county, so that it is not possible to put forward figures directly expressing the incidence of measles in any particular year. The mortality of the disease year by year, however, is an indirect indication of its incidence. Measles is a disease which, with considerable regularity, is prevalent every other year. Following a comparatively high mortality (216 deaths) in 1928, the number of deaths from measles in 1929 fell to 6.

The following table illustrates the biennial fluctuation in the number of deaths attributable to measles in the County during the past 10 years:—

Year.	Deaths.	${ m Year.}$	Deaths.
1920 1921 1922 1923 1924	112 14 130 35 191	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	$egin{array}{c} 27 \\ 160 \\ 4 \\ 216 \\ 6 \\ \end{array}$

CEREBRO-SPINAL FEVER.—Twenty-eight cases notified during 1929. Four cases, which occurred in the Borough of Acton in the summer, and all of which ended fatally, were the occasion of a certain amount of publicity in the press. In connection with the investigation into these cases, which was conducted by the Medical Officer of Health of Acton, the County Council assisted by undertaking the bacteriological examination of a large number of pharyngeal swabs from contacts, the work being carried out for the County Council by the Bacteriologist of University College Hospital. The number of notifications during each year since the disease became notifiable in September, 1912, has been as follows:—1913, 7; 1914, 8; $19\overline{1}5, 115$; 1916, 53; 1917, 54; 1918, 19; 1919, 33; 1920,23; 1921, 9; 1922, 15; 1923, 11; 1924, 12; 1925, 12; 1926, 2; 1927, 16; 1928, 22; 1929, 28.

Encephalitis Lethargica.—Thirty-eight cases were notified during the year, and of this number thirty-five were fatal, corresponding to a case-mortality rate of over 92 per cent. As pointed out in last year's report, it is probable that such a rate as this is much above the true one. The signs and symptoms of lethargic encephalitis are so complex and protean in character that it is extremely probable that, owing to difficulty in diagnosis, many of the milder cases are missed. The severe and fatal cases are diagnosed and notified, with the result that the case-mortality rate appears unduly high. This conclusion is borne out by the fact that cases of post-encephalitic Parkinsonianism, in which no definite history of an acute attack

of encephalitis can be elicited, are by no means of rare occurrence. In these cases it is only by inference that a previous febrile attack is recognised, perhaps months later,

as having in fact been encephalitis.

Since this disease was made compulsorily notifiable on 1st January, 1919, the number of notifications has been as follows:—1919, 28; 1920, 44; 1921, 53; 1922, 30; 1923, 31; 1924, 162; 1925, 110; 1926, 89; 1927, 44; 1928, 35; 1929, 38.

ACUTE POLIOMYELITIS.—Thirteen cases were notified during the year, as compared with 14 cases in 1928, 26 cases in 1927, and 45 cases in 1926. One of the 13 cases proved fatal.

ACUTE POLIOENCEPHALITIS.—Five cases occurred, two of which were fatal. During the preceding five years the figures were as follows:—1928, 2; 1927, 4; 1926, 2; 1925, 1; 1924, 5; 1923, nil.

PNEUMONIA.—There were 2,514 cases of acute primary pneumonia and one case of acute influenzal pneumonia, notified during 1929. This is the highest number of cases notified in any year since the disease was made compulsorily notifiable in 1919. As is usually the case, the incidence of pneumonia was highest in the first quarter of the year, when 1,430 cases were notified. The peak period occurred in the latter part of February and March, when for several weeks notifications of between 150 and 200 cases a week were received. During this period influenza was epidemic, not only in Middlesex, but throughout the country.

The greatest number of notifications were received in Willesden (403), Tottenham (299), and Heston and Isle-

worth (216).

The number of deaths from all forms of pneumonia was 1,278, equivalent to a death-rate of 0.88 per 1,000 living, compared with 919 deaths and a death-rate of 0.65 per 1,000 in 1928.

Dysentery.—Forty cases of dysentery were notified during 1929, as compared with six cases in 1928 and two in 1927. The high figure for the year under review is largely accounted for by an outbreak of bacillary dysentery which occurred at a residential orphanage in Twickenham

in September, when 28 cases were notified. The outbreak, which was the subject of a special report by the Medical Officer of Health of Twickenham, appears to have originated as a result of the activities of a "carrier" who was employed at the institution as a dining-hall maid. In addition to the notified cases, a considerable number of persons resident in the institution developed, about this time, symptoms of gastro-intestinal irritation. No fatalities occurred.

Malaria.—Eleven notifications were received, of which ten related to cases believed to have been infected abroad and one to a case in which the disease was induced for therapeutic purposes. Five cases were notified in the Borough of Ealing.

ERYSIPELAS.—There is evidence that this disease has been on the increase during the past few years, and it is of interest to note that the causative organism in erysipelas is closely allied to, if not identical with, the organism found in scarlet fever and severe cases of puerperal fever.

The number of cases of erysipelas notified in 1929 was 521. For the previous years the figures were:—1928, 525; 1927, 447; 1926, 351; 1925, 395; 1924, 386; 1923,

326.

Anthrax.—One non-fatal case was notified in Uxbridge Urban District in 1929.

Cholera, Plague, Relapsing Fever, Continued Fever and Typhus.—No cases of any of these diseases were notified during the year.

ISOLATION HOSPITAL ACCOMMODATION.

(i) Fever.—Section 63 of the Local Government Act, 1929, requires every county council, as soon as may be after the commencement of the Act, to make a survey of the hospital accommodation for the treatment of infectious disease, provided by the county council and by the councils of any districts wholly or partly within the county. Upon the completion of such survey the duty is placed upon the county council of preparing in consultation with all such districts a scheme for the provision of adequate hospital

accommodation for the treatment of infectious disease within the county. At the time of writing this report, the

survey is in process of being made.

At the close of 1929 the position with regard to isolation hospital accommodation was that fifteen hospitals for the treatment of cases of infectious disease were in existence in Middlesex, having been established by local sanitary authorities either singly or in combination. During the year a new block was erected at the Southgate District Council's Isolation Hospital consisting of eight single-bedded observation wards. The total accommodation in the County for cases of infectious disease is stated to be about 1,000 beds. Pending the issue of the special report on isolation hospital provision referred to above, details of the present accommodation (which in the main still are substantially correct) may be found in my annual report for 1925.

(ii) Smallpox.—The County Council is the authority for the provision of smallpox-hospital accommodation for the whole of the Administrative County, with the exception of the Urban District of Willesden.

In my Annual Report for 1928 full information was given regarding the agreement entered into between the Middlesex County Council and the Metropolitan Asylums Board, whereby the extensive hospital provision made by the Board for the treatment of smallpox became available for the reception of cases of smallpox occurring in any part of Middlesex (save the Urban District of Willesden). The arrangements were in operation during the whole of 1929 and worked with great smoothness and efficiency.

Tuberculosis.

The number of "new cases" of tuberculosis reported to the County by district medical officers of health during 1929 was 2,204. (Nine of these cases related to persons who changed their place of residence from one sanitary district to another within the county and were formally notified under the Regulations.) Of this total 1,907 (86.52 per cent.) were notified by medical practitioners or school medical officers in accordance with the Public Health

(Tuberculosis) Regulations, whilst 297 (13.48 per cent.) came to the notice of medical officers of health in other

ways than by formal notification.

The number of deaths attributed to tuberculosis during the year was 1,215, of which 1,058 were due to pulmonary and 157 to non-pulmonary tuberculosis, corresponding to a death-rate from all forms of the disease of 0.83 per 1,000 persons living.

The following table shows the age- and sex-incidence of the 2,204 new cases, divided into pulmonary and nonpulmonary groups and compared with the number of

deaths, similarly classified:

New Cases and Deaths during 1929.

		New C	ases.*			Deat	hs.†	Paritie Televisia
Age Periods.	Pulmo	nary.	No Pulmo		Respi	ratory.	Oth	er.
	М.	F.	М.	F.	M.	F.	м.	F.
0-1 1-5 5-10 10-15 15-20 20-25 25-35 35-45 45-55 55-65	3 5 23 20 73 137 240 192 162 86	$ \begin{array}{c} 1\\ 4\\ 14\\ 14\\ 107\\ 184\\ 248\\ 134\\ 71\\ 37 \end{array} $	6 42 55 29 19 14 15 11 12 3	7 27 34 23 26 18 34 10 5	$ \begin{cases} 5 \\ 4 \\ $	1 3 9 143 194 87	11 24 10 15 8	5 19 14 10 14 8
65 and upwards	28	11	2	4	32	14	3	5
Totals	969	825	208	193	607	451	82	75

^{*} These figures are summarised from the weekly returns received from the medical officer of health of each district in accordance with the Public Health (Tuberculosis) Regulations, 1924, and include notified and non-notified cases in the County as a whole.

These figures show an increase of 122 in the number of new cases reported in 1929, as compared with 1928, and an increase of 144 in the number of deaths attributable

[†] Statistics supplied by the Registrar-General.

to tuberculosis during the same period. The result of this increase in the number of deaths from tuberculosis upon the tuberculosis death-rate in 1929, as compared with that of the preceding year, is an increase of 0.07, but it must be borne in mind that the tuberculosis death-rate in 1928 was exceptionally low, being in fact the lowest ever recorded in Middlesex. The increased death-rate in 1929 was entirely due to an increase in the number of deaths due to tuberculosis of the respiratory organs and may possibly be associated with the epidemic of influenza in the early months of the year, to which attention has already been drawn. The death rate from non-pulmonary tuberculosis in 1929 is the lowest on record. The diagram, which appears on page 42 illustrates these points.

Further statistical information with regard to tuberculosis is contained in the pages which follow. The table on page 39 deals with the numbers of notifications of, and deaths from, tuberculosis during the past ten years with the corresponding rates in relation thereto. On pages 40 and 41 are set out details relating to notifications and deaths in each sanitary district in Middlesex, together with the numbers of persons whose names were on the tuberculosis registers of the various local sanitary authorities

at the close of the year.

TUBERCULOSIS NOTIFICATIONS AND DEATHS FOR PAST 10 YEARS.

	Death-rate per 1,000 living.	0.92 0.93 0.93 0.93 0.88 0.88 0.83
Luberculosis	Number of Deaths.	1,178 1,180 1,180 1,180 1,193 1,097 1,138 1,193 1,215
All Forms of Tuberculosis.	Rate per 1,000 living.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
A	Number of Noti- fications.	2,218 1,931 1,944 1,982 1,982 2,009 1,819 1,907*
ystem.	Death-rate per 1,000 living.	0.76 0.75 0.75 0.72 0.71 0.71 0.64
Tuberculosis of Respiratory System.	Number of Deaths.	974 944 948 916 922 944 1,024 1,058
culosis of Re	Rate per 1,000 living.	1.48 1.27 1.23 1.25 1.04 1.10
Tuber	Number of Noti- fications.	1,887 1,604 1,529 1,529 1,635 1,635 1,621 1,478 1,603*
		1920 1921 1922 1923 1925 1925 1928 1929

* These figures were obtained from copies of the weekly notifications of the district medical officers of health in the County furnished to the Registrar-General; the remaining statistics (except the rates) were supplied by the Registrar-General.

NOTIFICATIONS OF, DEATHS FROM, AND TOTAL NUMBER OF CASES OF TUBERCULOSIS IN EACH SANITARY DISTRICT.*

, 1929, cers of			Chand	Total.		263	648	335	773	438	23	236	83	37	19	160	62	628	297
December dical Offi		ury.		Total.		4.1	133	74	181	81	9	52	13	2]	9	19	15	168	98
Cases of tuberculosis remaining on the 31st December, 1929, on the Registers of Notifications kept by Medical Officers of		Non-Pulmonary.		Females.		17	81	39	93	46	7	24	4	G	ī	ee	23	93	46
ining on ications k	County.	No		Males.		. +2	55	35	88	ಕ್ಷಾ	+	28	<u>3.</u>	12	_	9	13	75	07 [
osis rema s of Notifi	ts in the			Total.		222	515	261	592	357	17	184	20	16	ಣ	141	47	460	211
f tubercul	n of distric	Pulmonary.		Females.		106	245	130	259	165	9	95	35	∞		71	23	231	101
Cases or on the	Healt	j jedenj		Males.		116	270	131	333	192	11	88	35	S	9	70	24	229	110
s).	7	Dearns.		Rate per 1,000 living.		06.0	1.19	$96 \cdot 0$	1.15	0.75	0.39	0.51	0.70	0.33		0.49	98.0	0.73	08.0
(all form	5	De		No.		59	. 02	901	98	49	ಕಾ	28	15	4		12	12	61	20
Tuberculosis (all forms).	Cases notified,	1929.		Rate per 1,000 living.		1.27	1.41	1.30	1.44	68.0	1.30	0.82	0.75	0.33	1.34	0.81	1.29	1.59	1.14
T	Cases	7		No.		83	83	135	108	58	10	45	91	4	₹#	20	18	132	7.1
		District.			Urban—	Acton (Borough)	wick	Ealing (Borough)		Enfield	Feltham	Finchley	Friern Barnet	Hampton	Hampton Wick	Harrow		u	Heston & Isleworth

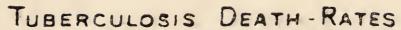
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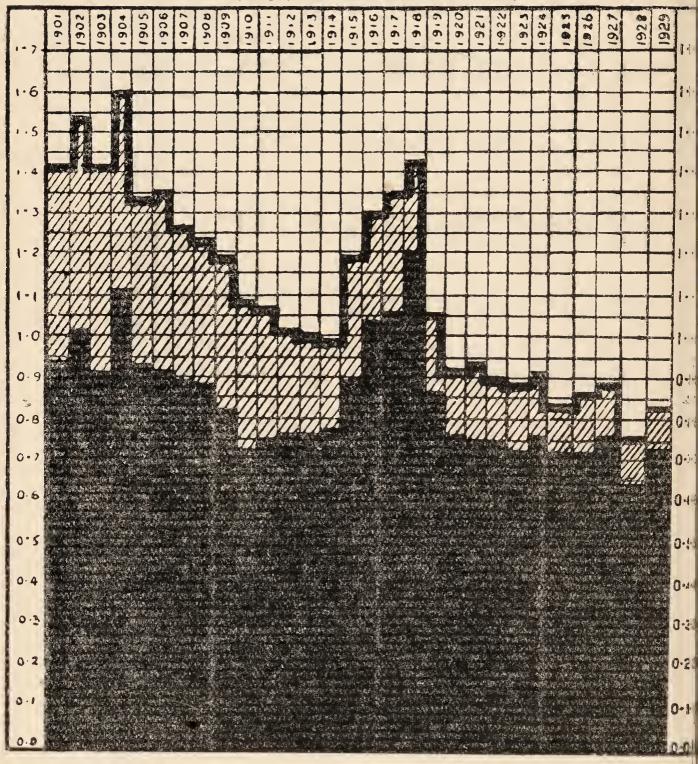
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50	571	22	17	61	-	+	16			2.5 2.5 2.5	_	13	36	225	59	1			9	4	ra	- -	1 080	T,003
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436	<u> </u>	51	102	155	17	14	72.	701		131	92	101	224	1,127	345		30		83		75	÷	The contract of	1.18.0
220		25	58	67	7	5	31	294		58		54.	103	558	162		19		98	က	ಣ	-1	200	3,253
216	တ	26	44	88	10	6	17	407		73	45	47	121	569	183		20		45	S	42	- 1		3,624
0.83								0.93					0.59		0.81	WE2204FF-130	1.27		0.46	1.12	0.75	0.75	- !	÷
50	CI	11	26	36	41	2		144		32	16	10	21	180	सु		10		10	10	22	೧೦	Salara de la companya	1,215
1.23	0.84	0.82	1.22	1.23	0.63	0.56	1.25	1.55		1.55	1.03	1.30	1.52	1.75	1.24		1.65		98.0	2.24	96.0	1.00		To. T
601	<u></u>		43	19	50	4	28	240		56	24	27	54	302	99		13		28	10	87	71		1,907
Hornsey (Borough)	Kingsbury	Ruislip-Northwood	Southall-Norwood	Southgate	Staines	Sunbury	Teddington	Tottenham	Twickenham	(Borough)	Uxbridge	Wealdstone	•	Willesden	Wood Green	Yiewsley and West	Drayton	Rural-	Hendon	South Mimms	Staines	Uxbridge		The County

Other statitsics obtained from periodical returns from * Statistics as to deaths supplied by the Registrar-General. district medical officers of health.

† Uxbridge Rural District abolished 31.3.29.

(C 1662)T





- TUBERCULOSIS (ALL FORMS) | DEATH RATE PER 1,000 LIVING.
- TUBERCULOSIS (PULMONARY) | DEATH RATE PER 1,000 LIVING.

SCHEME FOR THE PREVENTION AND TREATMENT OF TUBERCULOSIS.

The County Council's scheme for the prevention and treatment of tuberculosis came into operation in 1913 and from its commencement has included:—

- (i) The provision of tuberculosis dispensaries;
- (ii) The provision of institutional accommodation;

whilst in 1929 was added:—

- (iii) The provision of home nursing in suitable cases.
- established to serve as centres for the diagnosis, supervision and treatment of cases of tuberculosis. For purposes of administration the County is divided into six areas, to each of which has been appointed a whole-time tuberculosis medical officer with specialised knowledge of and experience in the disease, who acts as a consultant. In each area there has been established a head-dispensary in charge of the tuberculosis officer, who is assisted by whole-time dispensary nurses and a whole-time clerk. In addition to the six head-dispensaries, eight sub-dispensaries have been opened, in order that the facilities available may be reasonably accessible to residents in all parts of the County.

In 1928 the County Council purchased a site in Pound Lane, Willesden, and in the course of 1929 erected a new dispensary thereon to replace the existing one (a building held on lease) which had become very unsatisfactory. The first session at the new dispensary was held on December 1920

Particulars regarding the six dispensary areas, including information as to the tuberculosis medical officer in charge of each, with the addresses of the various dispensaries, are contained in the table on page 44.

TUBERCULOSIS DISPENSARY AREAS.

	44		Infectiou				*
の と を と	Branch Dispensaries.		10, Alexandra Road, Hornsey; 158, The Broadway, West Hendon.	53, Greenhill Crescent, Harrow.	School Clinic, Municipal Offices, Acton; High Street,	14, Heathfield Terrace, Chiswick; 12, Thames Street,	Staines; 1, Staines Road, Twickenham.
the state of the s	Head Dispensary.	Edmonton. 140, West Green Road, Totten-	r Villa, Road, inchley.	Pound Lane, Willesden.	Green Man Lane, Ealing.	28, Bell Road, Hounslow.	
THE RESIDENCE OF THE PROPERTY	Tuberculosis Medical Officer.	Dr. H. Evans Dr. S. T. Davies	Dr. J. R. B. Dobson	Dr. O. Bruce	Dr. F. R. B. Atkinson	Dr. W. S. Forbes	
	Districts served.	Edmonton, Enfield Tottenham	Finchley, Friern Barnet, Hendon (Urban), Hornsey, Southgate, Wood Green,	Harrow, Kingsbury, Ruislip- Northwood, Wealdstone, Wembley, Willesden,	Acton, Ealing, Hayes, Southall-Norwood, Uxbridge (Urban), Yiewsley	Brentford & Chiswick, Felt- ham, Hampton, Hampton Wick, Heston & Isleworth,	Staines (Urban), Sunbury, Teddington, Twickenham, Staines (Rural).
The state of the s	Area.	_ ¥	<i>∵</i> 1	೧೦	w ju	າລ	

A joint report by the tuberculosis officers upon the year's work in the dispensaries, together with some general observations upon the operation of the County Council's scheme for the treatment of tuberculosis, is as follows:—

Work under the County Tuberculosis Scheme has proceeded, during 1929, along established lines. The close relationship between the tuberculosis officers, sanitary authorities, general and special hospitals, school clinics and general practitioners has been maintained.

Cases dealt with at the dispensaries are received from the

following sources:—

(1) Notifications.

(2) General and special hospitals and school clinics.

(3) Direct from general practitioners.

In 1928, there were 3,427 new cases referred to the tuberculosis officers of the County; in 1929, the number was 3,600, the great majority of whom were referred to

the dispensaries by general practitioners.

Frequent communications are made by the tuberculosis officers to general practitioners with reference to the necessity for, and the results of, institutional treatment, and also with regard to any suggested alteration of treatment. General practitioners are aware that they can make free use of the dispensary facilities for the diagnosis of any doubtful case, and they take every advantage of them.

Special methods of treatment.—Artificial pneumothorax and sanocrysin are still being used at Harefield Sanatorium in suitable cases. In our opinion, the results of these special forms of treatment agree with the findings of most authorities, i.e., they are not curative but are adjuvants of great value. "Gamelan" has been tried in two areas in four cases where other forms of treatment had failed, but no beneficial result was obtained. One patient attending one of the Council's dispensaries had a course of Angio Lymph with apparently beneficial results and the same patient is now undergoing a further course but the result of this is not yet to hand. Artificial sunlight has been

thought by some of us to be of undoubted value in the treatment of certain forms of surgical tuberculosis, though others of us are not so convinced of the benefit. Some of us think the possibility of affording facilities for undertaking this form of treatment in local light-centres should be given serious consideration.

Accommodation for non-pulmonary cases.—Although the additional accommodation at Heatherwood Hospital and at Melton Lodge, Great Yarmouth, has relieved the waiting-list in the case of children suffering from non-pulmonary forms of the disease, there are still too few beds available for adult cases of surgical tuberculosis and the period of waiting for vacancies is a long one.

Treatment vf Advanced Cases.—It is hoped that accommodation, increased in amount and nearer to the homes of the patients, may be provided as a result of the new Local Government Act.

Home Nursing.—In selected cases, subject to certain restrictions laid down by the Council, home nursing is provided for patients: Care is taken that this provision is not made in those cases which, in the opinion of the tuberculosis officer, ought to be in an institution. Its value lies chiefly in providing for the care of chronic surgical cases requiring frequent dressings.

Methods of Diagnosis.—X-rays are constantly employed for diagnostic purposes. Special arrangements are made with local hospital X-ray departments and with Harefield Sanatorium for reports upon cases referred, and by virtue of this provision installations of X-ray apparatus in the dispensaries have not been found necessary. Lipiodol has also been used with success for diagnostic purposes.

It has been thought advisable to restrict the use of the beds at Hounslow Hospital-Dispensary to doubtful cases for purposes of diagnosis only, so that no patient actually known to be suffering from tuberculosis should come into contact with a possibly non-tuberculous case.

The general trend of reduction in the incidence and mortality rates for all forms of tuberculosis during the last

tew years is shown in the County Medical Officer's reports. This is undoubtedly partly due to improved standards of living and housing, but we are encouraged to think that some of the credit for this result must be awarded to the efficient working of the tuberculosis scheme in the County.

Pessimistic views are often taken by the public as to the ultimate results of the treatment of pulmonary tuberculosis and it is interesting to note during the last four years 1,035 cases have been written off the dispensary registers as definitely "Cured." The Ministry of Health defines as a "Cure"—in the case of pulmonary tuberculosis, one in which "five years have elapsed without any symptoms of active disease."

Early in the year the College of Nursing addressed a letter to the County Council in connection with the approved courses organised by the College for the training of health visitors for the Health Visitor's Certificate. The letter asked whether it would be possible for students undergoing such training to attend at some of the County Council's tuberculosis dispensaries and obtain an insight into the work undertaken there, and by the tuberculosis nurses in the homes of the patients.

Although it was realised that the proposal, if carried out, could entail a certain amount of inconvenience at the dispensaries, the Council felt that unless local authorities were willing to assist in providing opportunities for training in the practical side of health visiting, such training would be of very limited value. Accordingly, it was decided to agree to the application and during the year a small number of nurses, training for the Health Visitor's certificate, attended at one or other of the Council's dispensaries and there received practical instruction in the duties of a tuberculosis nurse. All who participated in the course were later given the opportunity of paying a visit to the County Sanatorium, Harefield, where they were conducted round the institution and were shown matters of interest in connection with the work carried on thereat.

(ii) Institutional Accommodation.—The provision of institutional treatment for sufferers from tuberculosis continues to be administered along the lines which have been detailed in previous Annual Reports and which have been found to be effective in operation. In all cases admission to an institution is governed by a recommendation to that effect by one of the Council's tuberculosis medical officers, based either upon his own clinical examination of the patient, or, in those cases where the patient already is in a general or special hospital, upon the written report of the physician or surgeon under whose care the patient is.

The following statement shows the total number of beds belonging to, or reserved for the sole use of, the Council during 1929:—

	Acco	mmoda	tion.	
Institution.	Adı	ults.	Chil-	Type of case.
	М.	F.	dren.	
*County Sanatorium,	129	129	56	Pulmonary — sana torium.
Harefield	***************************************	,	8	Pulmonary—obser
County Sanatorium, Clare Hall, South Mimms	120	66		vation. Pulmonary — lat sanatorium an hospital
County Council Hospital- Dispensary, Hounslow	9	7		Pulmonary—observation.
Heatherwood Hospital, Ascot			25	Non-pulmonary.
Victoria Home, Margate			6	Non-pulmonary.

^{*} Information as to the extent of the work carried out at the County Sanatorium, Harefield, during 1929 appears on page 65 et seq. of this Report.

In accordance with the Middlesex Districts Joint Small-pox Hospital Order, 1928, made by the Minister of Health, the County Council purchased Clare Hall Hospital from the constituent authorities of the late Joint Board, to whom the hospital belonged. The hospital became a County Council institution on 1st April, 1929, and has since been known as the County Sanatorium, Clare Hall. A single house committee has been appointed for the joint management of the two County Sanatoria, Harefield and Clare Hall, and the County Council Hospital-Dispensary at Hounslow.

As mentioned in last year's Annual Report, a convalescent home has been established by the United Services Fund at Melton Lodge, Great Yarmouth, in connection with Heatherwood Hospital, Ascot. The purpose of this convalescent home is to make provision for cases which no longer require active treatment at Heatherwood Hospital, but which are hardly fit for discharge to their homes. At Melton Lodge, cases remain for a further period under medical surveillance, remedial exercises are undertaken and any necessary alterations or adjustments to surgical appliances are carried out. By this means, somewhat earlier discharge of patients from Heatherwood Hospital is rendered possible, with the consequent liberation of valuable beds for the treatment of more acute cases.

The Medical Superintendent of Heatherwood Hospital attends periodically an after-care clinic at the Farringdon Dispensary, London, E.C., and children, after discharge, are encouraged to present themselves there from time to time for medical examination, so that any signs of reactivation of the disease may be at once detected, and in order that advice may be given and any necessary appliance ordered to avoid or counteract deformity. During the year the County Council entered into an arrangement to pay to the Hospital authorities a fee in respect of each attendance of a Middlesex case at the after-care clinic.

Other Institutions at which Patients have been maintained during 1929.

Sanatoria.—Brompton Hospital and Frimley; Chilton Hill, Sudbury; Daneswood; Eversfield, Sussex; Fairlight, Hastings; King Edward VII, Midhurst; King George's, Bramshot; Maltings Farm, Nayland, Suffolk; Marillac, Warley; National Sanatorium, Benenden; Royal National, Bournemouth; Royal National, Ventnor.

Pulmonary various types,

Colonies.—British Legion Village, Preston Hall, Kent; Papworth Village Settlement, Papworth Hall, Cambridge.

Homes for very advanced cases.—St. Luke's, Bayswater.

Hospitals.—Atkinson Morley Convalescent, Wimbledon; Hendon Cottage; Prince of Wales's, Tottenham; Royal Sea-Bathing, Margate; St. Anthony's, Cheam; and All Saints, Royal National Orthopædic, St. Mary's, St. Thomas's and University College, London.

Non-pulmonary adults.

Alexandra Hospital for Hip Disease, Swanley, Kent; Children's Hospital, Barnet; Children's Hospital, Sevenoaks; Hendon Cottage; Lord Mayor Treloar Cripples', Alton; Royal National Orthopædic, Country Branch. Stanmore; Royal Sea-Bathing, Margate; St. Anthony's, Cheam; St. Nicholas' and St. Martin's Orthopædic Hospital, Pyrford; St. Thomas's, London; St. Vincent's, Pinner; Wingfield Orthopædic, Oxford.

Non-pulmonary children.

(iii) Home Nursing of Cases of Tuberculosis.—In the Annual Report for 1928 full details were given concerning the scheme adopted by the County Council for the home nursing of tuberculosis cases. The scheme was in operation throughout 1929, but there was very little call upon the service provided, possibly because its existence was not fully appreciated by all the various nursing associations functioning in the County, and possibly also on account of the very necessary restrictions imposed by the County Council with regard to the type of case suitable to be dealt with by a service of this nature.

Public Health Act, 1925.—No action was taken during the year under Section 62 of this Act, which provides for compulsory removal to institutions of patients suffering from infective pulmonary tuberculosis in certain circumstances.

STATISTICAL SURVEY OF THE WORK CARRIED OUT DURING 1929 UNDER THE COUNTY TUBERCULOSIS SCHEME. The tables appearing on the pages which follow are those prescribed by the Ministry of Health for the purpose of the annual statistical return of the authority. As will be seen, they contain a most detailed and at the same time comprehensive mass of information regarding the operation of the County's scheme. refers to the work carried out at or in connection with the dispensaries, Table II deals with the extent of institutional treatment provided, and indicates the immediate results of such treatment. Table IV is perhaps the most interesting and instructive, as it endeavours to show in statistical fashion the after history and ultimate fate of all tuberculous persons who have come under public medical treatment. The tables have not yet been long enough in use to enable any definite conclusions to be drawn from them, but in course of time Table IV will be, to a very large extent, a criterion of the efficiency or otherwise of an authority's scheme, indicating, as it will do, the proportion of cases first coming under treatment during any one year, which ultimately become cured.

In order to appreciate the information contained in these tables, it is necessary to have in mind the precise meaning of the terms occurring therein, many of which are used in a special sense. Information on this matter is given below.

Definitions and Classification.—Patients diagnosed as suffering from Pulmonary Tuberculosis are placed in the following categories:—

Class T.B. minus, viz., cases in which tubercle bacilli

have never been demonstrated in the sputum; and

Class T.B. plus, viz., cases in which tubercle bacilli have at any time been found. It should be noted that a patient originally in Class T.B. minus must be transferred to Class T.B. plus at any stage in the course of treatment

if and when tubercle bacilli are found; while, on the other hand, a patient who is once placed in Class T.B. plus can never revert to Class T.B. minus. Class T.B. plus is further subdivided into three groups as follows:—

Group 1.—Cases with slight constitutional disturbance, if any, e.g., there should not be marked acceleration of pulse nor elevation of temperature except of very transient duration; gastro-intestinal disturbance or emaciation, if

present, should not be excessive.

The obvious physical signs should be of very limited extent as follows:—Either present in one lobe only and in the case of an apical lesion of one upper lobe not extending below the second rib in front or not exceeding an equivalent area in any one lobe; or where these physical signs are present in more than one lobe they should be limited to the apices of the upper lobes and should not extend below the clavicle and the spine of the scapula.

No complication (tuberculous or other) of prognostic gravity should be present. A small area of dry pleurisy

does not exclude a case from this group.

Group 3.—Cases with profound systemic disturbance or constitutional deterioration, with marked impairment of function, either local or general, and with little or no prospect of recovery.

All cases with grave complications, whether tuberculous or not, are classified in this group, e.g., diabetes, tuber-

culosis of larynx or intestine, &c.

Group 2.—All cases which cannot be placed in Groups 1 and 3.

Patients suffering from Non-Pulmonary Tuberculosi; are classified according to the site of the lesion as follows:—

(1) Tuberculosis of bones and joints.

(2) Abdominal tuberculosis (i.e., tuberculosis of peritoneum, intestines or mesenteric glands).

(3) Tuberculosis of other organs.

(4) Tuberculosis of peripheral glands.

Patients suffering from multiple lesions are classified in one sub-group only, viz., in that applicable to the case which stands highest in the table.

Observation Cases.—Persons attending at, or in connection with, the dispensaries, in whose cases the tuberculosis officer cannot, within a period of one month from his first examination of the case, come to a definite diagnosis after physical examination and the application of the necessary tests. (These cases appear on Table I, A and B, under subsection b.)

Quiescent.—Cases which have no symptoms of tuberculosis and no signs of tuberculous disease except such as are compatible with a completely healed lesion, and in which sputum, if present, is free from tubercle bacilli.

Arrested.—In pulmonary cases the term "arrested" is applied only to cases which have been "quiescent" for a period of at least two years.

In non-pulmonary cases the term "arrested" is used as soon as there is reason to believe that the disease is unlikely to recur.

Cured.—No patient is deemed to be "cured" until in the case of pulmonary tuberculosis, five years, and, in the case of non-pulmonary tuberculosis, three years, have elapsed without any symptoms of active disease (i.e., arrest has been maintained for three years).

TABLE I.

Return showing the work of the Dispensaries during the year 1929.

			y			
	lren.	Œ	56 21 125	8 5 5 237	-	389
fal.	Children.	M.	73 22 200	10 11 247	533	486
Total.	Its.	£	504 54 474	38 10 221	92	743
	Adults.	M.	583 56 506	36	6	648
	Children.	E	# 11	લ	23	
Non-Pulmonary.	Chile	M.	ğ	લ	4.61	
Von-Pul	Its.	E	<u> </u>		6	dimensional Visit amusella and a
	Adults.	M.	45	63	15	
	Children.	Fi	E	9		1
mary.	Chil	M.	20	∞	29	
Pulmonary.	ilts.	Ä.	453	86	29	1
	Adults.	M.	541	ec.	8	
	Diagnosis.		 A.—New Cases examined during the year (excluding contacts):— (a) Definitely tuberculous (b) Doubtfully tuberculous (c) Non-tuberculous 	B.—Contacts examined during the year:— (a) Definitely tuberculous (b) Doubtfully tuberculous (c) Non-tuberculous	the the ss as conf	ng cancellation of cases notified in error)

			i njeci	vous .	DUSCOE				
334	1	197 3,629	642	2,044	470	2,600); }	26	
. 452	eat- vith 	 icers	tors		stion	 liary	year		
1,639	ntal Tr ection v dical p	 losis Off	Ith Visi	nined	connec Dispen	ber Domici	ng the		29.
2,079	om De n conne 	" "ubercu	or Hea	c., exan	ade in	Decembrander Decembrand	ed durinersons:		n in 19
192	s to wh at or i	licants sits by T	7 Nurses	tum, &	ons ma work d Persc	Persons	receive sured Pe		servatio
254	9. Number of patients to whom Dental Treatment was given, at or in connection with the Dispensaries	(a) At homes of Applicants (b) Otherwise	to homes Number of visits by Nurses or Health Visitors to homes for Dispensary nursoses	Number of :— (a) Specimens of sputum, &c., examined	(b) X-ray examinations made in connection with Dispensary work 14. Number of Insured Persons on Dispensary	Registers on the 31st December Number of Insured Persons under Domiciliary Treatment on the 31st December	16. Number of reports received during the year in respect of Insured Persons:—	Form G.P. 36	t or obs
214	mber of pament was the Disperment of contract the Disperment of contract the contract of the contract of the contract of contr	(a) At homes (b) Otherwise . Number of o	to homes mber of v	13. Number of :— (a) Specimens o	ray exrith Dis	Segister nber of	nber of	Form G.P. 36	Notes. Cases returned for treatment or observation in 1929.
142 182	9. Num nr tl	$ \begin{array}{c} (a) & \text{At} \\ (b) & \text{Ot} \\ 11. & \text{Num} \end{array} $	to 12. Num	13. Num (a) $S_{\rm I}$	(6) X " 14. Nur	F 15. Nur 7	16. Nur i	(6) (6) (7)	ss. d for tr
142					4		2,110		Notes.
198	1,447	. 41		14,446	•				
1,425	gisters other cases	3. Number of patients transferred to other areas and cases "lost sight of"	A(b) obser-	6. Number of attendances at the Dispensaries (including contacts)	ober of attendances of non-pulmonary cases at Orthopædic Out-stations for treatment or supervision	Number of attendances, at General Hospitals or other Institutions approved for the			Totals include 12 " cured "
1,897	ary Re d from t of"	to oth	under	Dispe	on-pulr t-statio	eral He	 ment		e 12 "
: 1	Jispens nsferre st_sigh	sferred t of ''	n cases hich pe	at the	s of m lic Ou ision	at Gen is appi	f treat		inelnd
pleted comple	ns on I 'y nts tra f "los	ts transt st sigh	ervation ve in w	$ \frac{1}{2} $	ndances thopæd superv	lances, titution	avients tment forms o		Totals
December:— (a) Diagnosis completed (b) Diagnosis not completed	nu nu oat	nber of patients transferred and cases "lost sight of"	Number of observation cases under A (b) and B (b) above in which period of observation of observations and B (b) above in which period of observations of the second of the secon	vation exceeded 2 months above at the (including contacts)	7. Number of attendances of non-pulmonary cases at Orthopædic Out-stations for treatment or supervision	f attender Inst	purpose, or patients for : "Light" treatment Other special forms of treatment		3080%
Diagnosis not completed Diagnosis not completed	mber o on 1st nber o areas	mber of particular of particul	mber and B	vation mber o (includ	mber cases	mber o	Purpo "Light Other s		A Now Gases
	1. Nur 2. Nur	3. Nur		Nm	Z	Nu	(a)		

Item 7. Ex-Heatherwood patients who attended the After-Care Clinic at Farringdon General Dispensary since October, 1929.

Item 8(b). Including 392 attendances of patients at the County Sanatorium, Harefield, for artificial pneumothorax refills, who were not detained overnight.

Item 13(a). 32 additional examinations of sputum were made for medical practitioners, in respect of patients not

on the dispensary register,

TABLE II.—RESIDENTIAL INSTITUTIONS.

(a) Average Number of Beds available for Patients during the year 1929.

			onary culosis.	Non-Pulmonary Tuberculosis.						
entrintes	Observation.	"Sana- torium" beds.	"Hospital" beds.	Disease of bones and joints.	Other conditions.	Total.				
Adult Males Adult Females Children under 15	0	237 179 56	61 35	40 25 87	9 22 31	356 268 182				
Total	24	472	96	152	62	806				

(b) Return showing the extent of Residential Treatment during the year 1929.

						LIFER AND ADDRESS OF THE PARTY
_	In Ad- Dis- charged in the year.					In Institu- tions on 31st Dec.
Number of patients— Adults— Males Females Children— Males Females	292 227 85 68	679 492 118 57	473 367 114 52		159 94 4 3	339 258 85 70
Number of observation cases— Adults— Males Females Children— Males Females Total	- 3 2 1 678	78 84 48 27 1,583	74 86 48 23 1,237		260	1 2 5 764
	Total nu of indiving patien treate during year 19	idual ets ed the	Number of admission during the year.	.S	dise d	mber of charges uring e year.
Patients admitted for one or two nights only for artificial pneumothorax refills— Adults— Males ' Females	4		7			7

During the year, contrary to previous practice, the great majority of patients who attended the County Sanatorium, Harefield, for artificial pneumothorax refills were not detained overnight in the Institution.

TABLE III.

Return showing the Immediate Results of Treatment of Patients* and of Observation of Doubtful Cases discharged from Residential Institutions during the year 1929.

			Total.	103 69 21 8	56 178 46 40	26 163 94 118	33 38 81
		un ns.	Ch.	ee	1		-
	on.	More than 12 months.	Ħ	- -	83	1647	0
	Treatment in the Institution.		M.		80 + 0	-∞4o	[]
	the I	ths.	Ch.	о <u>е</u> – –	-]]	
150.	nent in	6-12 months.	Į.	∞ H → →	ස ස ය ය ව ග ය ය	27.74	-01 8
guar Te	I Treat	9	M.	- 21	z £ 4 62	18 10 10	10
and inch are form and among	Residential	ths.	Ch.	13 13			
000000		3—6 months.	Œ,	14	13 25 6 5	24 19 12	1000
	Duration of	3	M.	18 10	20 88 88	6 51 15 20	13 50 50
TOTAL TECOPORTION AND THE	A	nths.	Ch.	-266			
		Under 3 months.	ĘĽ,	41120	22 23 24	15 15 18 16	100
T alloll		Unde	M.	120 100	472	21 21 29	37 7 75
	Condition at time of Discharge.		Quiescent Improved No material improvement Died in Institution	Quiescent Improved No material improvement Died in Institution	Quiescent	Quiescent Improved No material improvement Died in Institution	
	гре ou	cation ssion to notion.		Class T.B.	Class T.B. plus. Group J.	Class T.B. plus. Group 2.	Class T.B. plus.
				•	sisoluərədu ^r	ulmonary T	d I

45	हा मू च स	e e m	is Disease		55 169
x 4 e1 e1	27		61-1	weeks.	13 27
02 2	61		2	than 4	
70 0 tt		155		More	
4.44			c &	ks.	10 1
-24	-).5	4 weeks	25 2
w 61 61	~ .	-		2	0 14 1
044	01 4	87-	24	S.	6
	62 67 -	÷1 −	- eo	-2 weeks	97
67					36 22
79]	eo —		9+-	week.	01
- m	3 =				m
	5		-	Under	21-
rested provement ion	rested provement ion	rested	rested provement ion		
Quiescent or arrested Improved No material improvement Died in Institution	Quiescent or arrested Improved No material improvement Died in Institution	Quiescent or arrested Improved No material improvement Died in Institution	Quiescent or arrested Improved No material improvement Died in Institution		Tuberculous Non-tuberculous Doubtful
Bones and Joints.	-dA .lsnimob	Other Organs.	Peri- pheral Glands.		fo se o q r u q diagnosis.
, sisc	y Tuberculo	1-Pulmonar	10 N		(C 1665)1 E 5

* The definition of "patient" does not include persons in whom a definite diagnosis of tuberculosis has not been made.

NOTES TO TABLE III.

PULMONARY TUBERCULOSIS.

T.B. Minus cases discharged from institutions.	
Of the 193 cases coming within the above category to following information with regard to sputum examination is given:—	the
No. in which no sputum was available	76
No. in which the sputum was examined more than	91
No in which the and	$\frac{31}{26}$
No in which the	20 Vil
	¥ 11
T.B. Minus cases who died in institutions.	
Particulars of the 8 patients coming within this categorare as follows:—	ry
Sputum negative on 12 occasions; cause of death, chronic fibrosis, T.B. pleurisy and bronchiectasis	1
Sputum negative on 12 occasions; cause of death, pulmonary tuberculosis and carcinoma of breast	1
Sputum negative on 8 occasions; cause of death,	1
nii monory tuboron logo	1
Sputum negative; several examinations; cause of	1
No sputum available; cause of death, pulmonary	1
No sputum available: cause of death, pulmonary	
No sputum available: cause of death, generalized	1
No sputum available: cause of death, tuber-culosis of spine and knee (pulmonary tuber-culosis quiescent)	1

TABLE IV.—(a) PULMONARY TUBERCULOSIS.

Annual Return showing in summary form the condition of all Patients whose case records were in the possession of the Dispensaries at the end of 1929, arranged according to the years in which the Patients first came under Public Medical Treatment for Pulmonary Tuberculosis, and their classification as defined on page 51.

	Previous to 1926.					1926.					2 00070		1927.		ncation	1928.					1929.				
			-		1020.			<u>-</u>				1041.													
Condition at the time of the last record made during the year	minus.		Class T.	B. plus	plus.			lass T.	B. plus.		nus.	(lass T.1	B. plus.		mimus.	('	lass T.1	B. plus.		nas.	('	lass T.1	3. plus.	
to which the Return relates.	Class T.B. m	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Class T.B. minus.	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Class T.B. mir	(troup 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Class T.B. min	Group 1.	(froup 2.	Group 3.	Total (Class T.B. plus).	Class T.B. min	Group J.	Group 2.	Group 3.	Total (Class T.B. plus).
Alice— Discharged as cured— Adults— Males Females Children — Males	110	122 39	29	5 4	156 50 2											_						-			
Females Disease arrested—	87	2			2																				
Adults— Males Females Children—	216 117	105 44	$egin{array}{c} 36 \ 20 \ \end{array}$	3	144 65	28 33	17 6	4 4		21 10	12 22	7		_	7 1				_		_ "	_			
Males Females	59 64	3 1	2	1	3 4	$egin{array}{c} 14 \\ 7 \end{array}$	1			1 	$\begin{bmatrix} 4 \\ 2 \end{bmatrix}$			-	_	=			-						
Disease not arrested— Adults— Males Females	60	144 76	172 75	26 15	342 166	18 40	48 33	53 43	5 8	106 84	39 39	93 51	42 40	11 8	146 99	47 77	106 75	64 88	10 10	180 173	113 122	179 120	138 105	36 37	353 262
Children— Males Females	22 21	3 4	$\begin{bmatrix} 4 \\ 3 \end{bmatrix}$	_1	8 7	15 8		1	1	$\frac{1}{2}$	25 16	1		-	1 1	39 32	1	2		3 1	29 14		1	1	1 2
Condition not ascertained during the year	1	1	1	3	5	4		Without the second	1	1	_		2		2			2	1	3					~~~~
Lost sight of or otherwise removed from Dispensary Registers	679	330	276	81	687	133	95	66	19	180	102	87	71	25	183	71	64	46	20	130	24	25	21	10	56
Dead Adults Females	105 60	174 92	331 190	387 236	892 518	35 26	$\begin{array}{c} 54 \\ 22 \end{array}$	101 84	101 87	256 193	18 23	49 36	97 77	78 54	$\begin{bmatrix} 224 \\ 167 \end{bmatrix}$	18 14	33 23	82 60	74 39	189 122	3 13	5 7	41 28	48 31	94 66
Children— Males Females	15	5	3 5	6	14 12	3		$\frac{2}{6}$	6	$egin{array}{c} 2 \\ 12 \end{array}$	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$	1	3	2	6			. 1	$\frac{1}{2}$	3			1	1	1 2
	2,320	1,147	1,155	775	3,077	364	276	364	229	869	304	327	332	178	837	299	302	346	157	805	318	336	336	165 1662)r	837

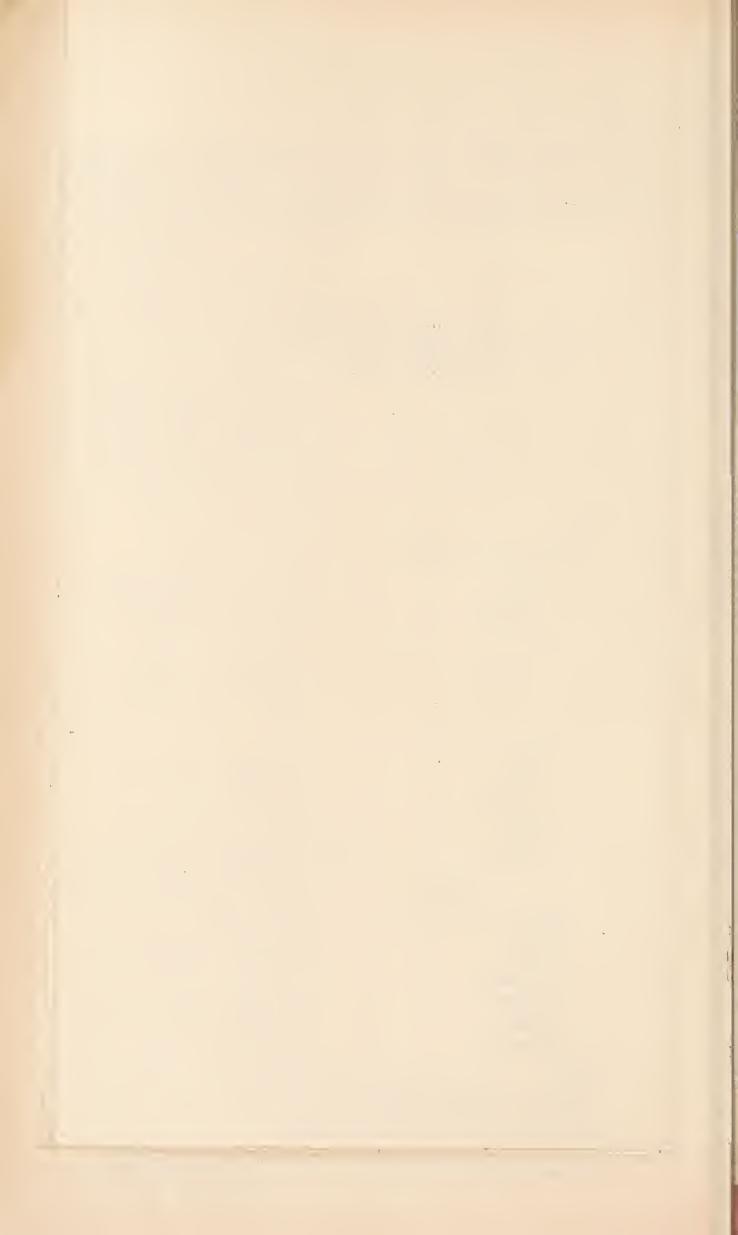


TABLE IV.—(b) Non-Pulmonary Tuberculosis.

Annual Return showing in summary form the condition of all Patients whose case records were in the possession of the Dispensaries at the end of 1929, arranged according to the years in which the Patients first came under Public Medical Treatment, and their classification as defined on page 52.

					1						, ana en		,	- J	1	$I^{a}J^{a}$				-					
		Previ	ous to 1	1926.				1926.					1927.					1928.					1929.		
Condition at the time of the last record made during the year 1929.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.
Alive — Discharged as cured— Adults— Males Females Children— Males	39 21 56	11 13 27	12 3	12 13 42	74 50 135	1		1	2	1 —			_		The second secon						- "			==	_
Females Disease arrested Adults Males Females Males Females	18 7 19 18	2 2 5 2	12 4 1 3 2	52 6 6 8 9	30 16 35 31	7 4 6 1	1 2 1 4		1 1 2 2	9 9 9	$\frac{2}{2}$	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 6 \\ 2 \end{bmatrix}$	3 1		6 7 10 12	3	1		1 2 2 2						
Disease not arrested—— Adults— Males Females Children—— Males Females	20		5 11 6	2 3 10 6	33 35 53 41	4 10 9 12	1 3 4	3 1		8 16 17 19	15 14 16 13	1 4 7 4	6 6 2 4	1 3 12 3	23 27 37 24	16 18 19 19	3 6 5 3	3 10 - 3	- 6 23 4	22 40 47 29	17 15 32 20	7 12 10 3	7 8 - 3	6 10 10 16	37 45 52 42
Transferred to Pulmonary Condition not ascertained during the year	4	1	2	4	11	3			1	1		1		1	4	1	_	1	_	1					
Lost sight of or otherwise removed from Dispensary Registers	163	34	47	75	319	33	13	12	31	89	25	9	6	13	53	12	1	3	10	26	6	3	2	-1	15
Dead Adults Males Females Children Males Females	18 14 11 6	5 4 5 3	7 3 1	1 1	31 22 18 9	5 4	$\begin{array}{c} 2\\1\\1\\2\\\end{array}$	- - 1		7 5 1 3	2 3 2 1	$\begin{array}{c} 2 \\ 1 \\ 2 \\ 2 \end{array}$		_ _ _ 1	4 4 5 3	5 2 1 3	1 - 2	1 1 - 2	1	7 3 4 5	1 —	1	2		3 1
Totals	545	132	137	251	1,065	100	35	23	55	213	98	44	31	46	219	99	23	24	49	195	91	36	22 (C.166		195

(С 1662)т

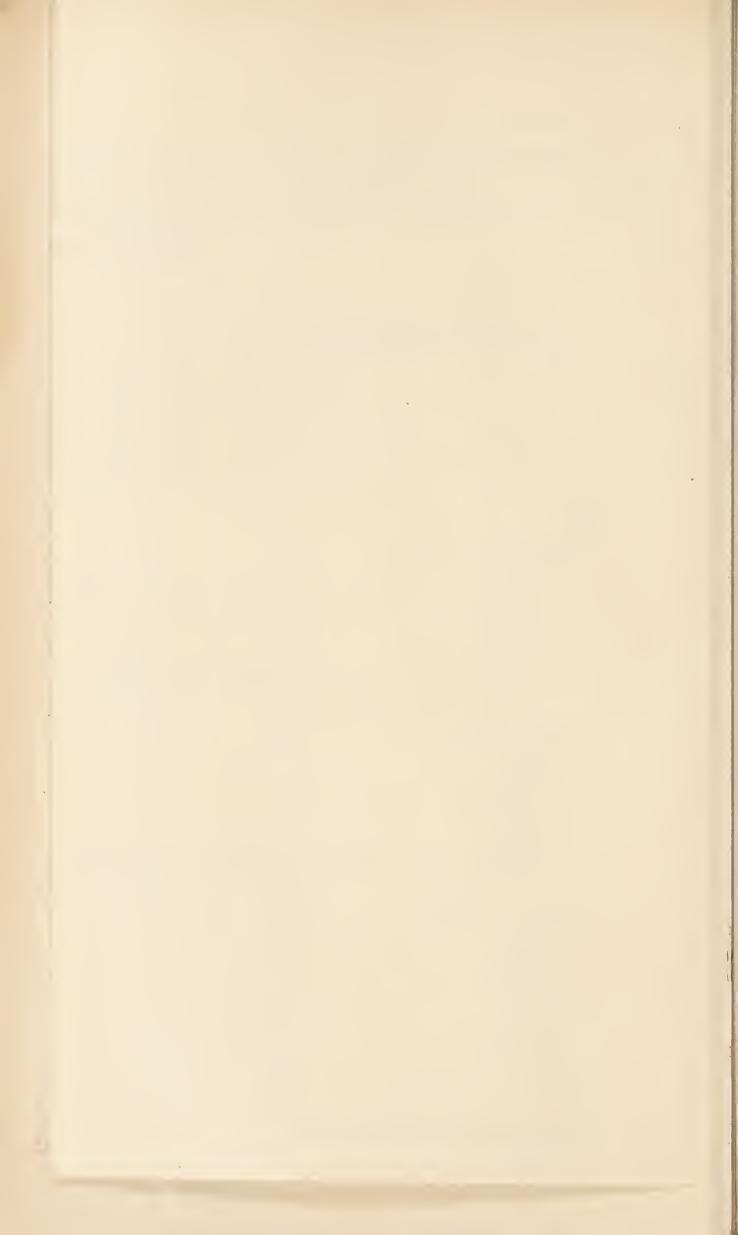


Table IV yields some very interesting information regarding the after history of tuberculous persons treated under the County's scheme, and in it individuals are classified according to the stage which the disease had reached when they first came under public medical treatment. Owing to the protracted course which the disease runs and the very slow nature of the healing process it is not possible to make dogmatic statements regarding the success of treatment until a considerable period of time has elapsed. Unlike most other diseases, in which a favourable termination, when it occurs, is obvious, tuberculosis requires an arbitrary definition of "cure." In pulmonary cases freedom from any signs of activity for a period of five years is regarded by most competent authorities as justifying the term "cure," and this standard has been adopted by the Ministry of Health. It must be understood, however, that five years is entirely an arbitrary period and pronouncements of "cure," based upon the above definition do occasionally prove unfounded.

From the above it will be apparent that in any endeavour to assess the value of a tuberculosis scheme from a curative point of view, it is necessary to consider the records of those individuals who, for a number of years have been under observation. In the first column of Table IV on are grouped those persons who first came under public medical treatment previous to 1926. By the end of 1929, therefore, every member of this group then living had been under observation for at least four years, and the majority for considerably longer periods. The total number of pulmonary cases in the group under consideration is 5,397, but of these a large number, 1,372, have been lost sight of, either on account of their having left the County, or because they have signified they no longer desire public medical treatment, or for a variety of other reasons. Deducting this number together with a small number of persons whose condition, for some reason, could not be ascertained during the year, there remains a balance of 4,025 patients, the condition of whom was known at the end of 1929.

These may be analysed as follows:-

PULMONARY TUBERCULOSIS.

Not arrested.	Per cent. 201 (12) 227 (28) 254 (29) 42 (6) 724 (18)
Dead.	Per cent. 183 (11) 272 (33) 529 (60) 635 (92) 1619 (40)
Disease arrested.	Per cent. 456 (28) 153 (19) 58 (7) 5 (1) 672 (17)
Disease cured.	Per cent. 800 (49) 164 (20) 37 (4) 9 (1)
Total number for whom record is available.	1640 816 878 691
Class.	T.B. minus T.B. plus, Gp. I Gp. II All Classes

From the above table it will be seen that, considering this group as a whole, one quarter of the number of persons who first came under public medical treatment for pulmonary tuberculosis prior to 1926, have been written off the dispensary registers as cured. The majority of those now classified as "disease arrested" will, doubtless, become cured after a further lapse of time, as also will a proportion of those whose disease is, as yet, not arrested. If we consider, however, those persons who sought treatment in a very early stage of the disease, represented by the class "T.B. minus," it is seen that very nearly one-half already are cured, whilst in more than three-quarters the disease is either cured or arrested. The figures thus furnish a very striking statistical demonstration of the importance of early treatment.

COUNTY SANATORIUM, HAREFIELD.

Admissions.—During the year ended December 31st, 1929, 597 patients were admitted to the institution for treatment: 316 males, 253 females and 28 children; 73 children also were admitted for observation purposes, 26 of whom were found to have definite signs of pulmonary tuberculosis and were transferred to the treatment wards.

45 persons suffering from pulmonary tuberculosis, for the most part patients who had undergone a period of institutional treatment, attended as out-patients at the County Sanatorium for the purpose of receiving artificial pneumothorax refills. These patients made a total of 401 attendances for this purpose. On seven occasions the Medical Superintendent considered it advisable to detain patients overnight or admit them to the treatment wards of the Sanatorium.

Discharges.—During the same period 597 patients were discharged: 293 males, 240 females, 64 children after treatment, 39 children also were discharged after observation. Included amongst the patients who were discharged are 74 who died in the sanatorium.

816 X-ray photographs were taken and numerous screen examinations made in the course of the year.

There is a considerable reduction in the number of cases of pulmonary tuberculosis in children treated at Harefield Sanatorium during the year. Whereas in 1927 80 cases were admitted for treatment and 142 in 1928, only 54 children were admitted to the treatment wards in 1929. From this fact alone it cannot, of course, be deduced that there has been any real decline in the incidence of pulmonary tuberculosis in children, but the fact remains that whilst there has been pressure, at times considerable pressure, upon the beds for adults, it has been a matter of difficulty to keep the children's beds occupied. In order that there should not be wastage of accommodation a rearrangement was made whereby more beds were made temporarily available for observation cases at the expense of certain treatment beds which appeared for the time to be redundant.

During the year Dr. McGregor, Medical Superintendent of the County Sanatorium, Harefield, attended a post-graduate course at Brompton Hospital, mainly devoted to modern advances in X-ray technique.

Statistical return of the Immediate Results of Treatment in the County Sanatorium, Harefield, during 1929, prepared by Dr. McGregor, Medical Superintendent.

	Died.	Per cent.		1.81	3.12	1.88	-		Ì	
arge.	No material improvement	Per cent.	22.50	12.72	1.56	10.69	9.37	11.76		10.20
Condition on Discharge.	Improved.	Per cent.	57.50	58.18	39.06	50.31	59.37	70.56	,	63.26
Cond	Quiescent.	Per cent.	20.00	27.27	56.25	37.10	31.25	17.64		26.53
Number	of patients.		40	55	64	159	ಣ	1.7		47
			*	:	•	•	•	•	•	•
60	J.		•	:	•	:	——————————————————————————————————————	•	* *	:
Stage of Disoner on	Admission.	LASS T.B. minus-	Males	Females	Children	Total	CLASS T.B. plus, Group Males	Females	Children	Total

	Number	Cond	Condition on Discharge.	large.	
Admission.	of patients.	Quiescent.	Improved.	No material improvement	Died.
Class T.B. plus, Group 2— Males Females Children	115	Per cent. 1.73 4.68	Per cent. 82.60 70.31	Per cent. 12.17 20.31	Per cent. 3.47 4.63
Total	179	2.79	78.21	15.08	3.91
Class T.B. plus, Group 3— Males Females Children	106		49.05 42.30	22.64 25.00	28 · 30 32 · 69
Total	21.0		45.71	23.80	30.47

VENEREAL DISEASES.

In the "Survey" Annual Report for 1925 full account of the Council's scheme for the treatment of veneral diseases was given, and there has not been any substantial alteration in the arrangements since that date. These arrangements fall into five categories, viz.:—

- (1) Arrangements, jointly with the London County Council and other authorities, for the diagnosis and treatment of patients at certain of the London hospitals.
- (2) Agreement with the Prince of Wales's Hospital, Tottenham, for the same purpose.
- (3) Arrangements for publicity.
- (4) Arrangements for the free supply of arseno-benzene compounds to approved medical practitioners.
- (5) Arrangements for the instruction of medical practitioners in modern methods of treatment of venereal diseases.

The extent to which Middlesex patients have utilised the individual hospitals included in the scheme is shown in the table on page 72, and a comparative statement of the work carried out during the past five years is given on page 71. These tables relate only to Middlesex residents, although in the case of the Prince of Wales's Hospital, Tottenham, the County Council has borne the expense of the treatment of 55 new patients not resident in the County.

The total number of Middlesex new patients dealt with during the year was 2,328, an increase of 5 on the total for 1928. Of these cases, 442 were suffering from syphilis (an increase of 1), 3 from soft chancre (a decrease of 10), 1,109 from gonorrhæa (an increase of 140), whilst 774 (a decrease of 126) were found not to be suffering from venereal disease. The attendances of Middlesex patients totalled 56,945 (an increase of 2,350), and the number of in-patient days of treatment was 2,254 (a decrease of 110).

The extent of the work carried out under the Joint Scheme may be judged from the fact that the total number

of new cases from all areas dealt with at the London hospitals during 1929 was 24,786 (a decrease of 1,210), of which 4,931 (a decrease of 339) were suffering from syphilis, 10,774 (a decrease of 122) gonorrhæa, 280 (an increase of 45) soft chance, whilst 8,801 (a decrease of 794) were diagnosed as not suffering from venereal disease.

The attendances totalled 768,872 (an increase of 5,337), and the number of in-patient days of treatment was

51,520 (a decrease of 13,586).

A comparison of the statistics relating to Middlesex patients attending each hospital in the scheme shows that the largest increase in new cases occurred at the following hospitals:—

Royal Northern Hospital, increased by 55. Middlesex Hospital, increased by 31.

The hospitals where the largest increase in total attend ances occurred were:—

St. Paul's Hospital, increased by 1,799.
Middlesex Hospital, increased by 991.
University College Hospital, increased by 974.
London Hospital, increased by 346.

Advantage has been taken of the useful facilities provided by the inclusion within the scheme of hostels for young women. Eighteen Middlesex women (a decrease of 1) in an infective condition were accommodated during their pregnancies, and occupied beds for an aggregate of 2,154 days (a decrease of 113), or 8·1 per cent. of the total

of all participating authorities.

Two doctors practising in Middlesex applied during 1929 to be placed on the approved list, enabling them to receive free supplies of arseno-benzene compounds. The total number now is 71. In addition to these there is a considerable number of doctors in London, by many of whom Middlesex residents would be treated, who also are on the list of approved practitioners.

VENEREAL DISEASES.

	*	. 1929.					}	-		
	spital.	1928.	,,				1	1		
	Richmond Hospital.*	1927.			2	=======================================	29	878		105
	Richm	1926.		26	- 5 5 8	-	126	3,437		397
		1925.		12	40	7	63	2,762		281
d at	3,	1929.		65	r1 66	ee = = = = = = = = = = = = = = = = = =	276	5,068	100	437
MIDDLESEX Patients treated at	Prince of Wales's Hospital, Tottenham.†	1928		20	95.12	98	242	4,937	172	450
Patient	of Wales's H Tottenham.†	1927.		45	103	70	218	5,400	303	240
ESEX	ince of Tot	1926.		09	7.9	8 61	221	5,129	66	390
MEDDE	Pri	1925.		57	77	16	226	4,330	152	530
		1929.		380	$\frac{1}{1,010}$	199	2,052	51,877	2,154	3,881
	oitals.	1928.		385	874	814	2,081	33,633 38,744 44,604 49,658 51,877	2,192	4,402
	London Hospitals.	1927.		380	3 892	735	2,010 2,081	14,604	4,347	3,990 4,402
	Londe	1926.		335	821	6:09	1,778	38,744	3,383	3,791
	marry_nileton make no no	1925.		375	677	638	1,699	33,633	3,342	3,575
			Number of persons dealt with at the Clinics for the first time and found to be suffering	Syphilis	Soft chancre Gonorrhæa	Not suffering from V.D.	Total	Total attendances	Number of "in-patients", days of treatment	Number of doses of arsenobenzene compounds given

* This clinic was closed on 19th April, 1927.

These figures do not include patients not residents of the County, but treated at the Hospital, the cost being borne by the Middlesex County Council under the agreement with the Hospital,

VENEREAL DISEASES.

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		Z	NEW CASES.	Š.				Arseno- benzene
Hospital.	Syphilis. Ch.	Soft Chancre.	Gono-	Not V.D.	Total.	attend- ances.	lvo. of in- patient days.	com- pounds. Doses given.
Great Ormond Street	01		೯೯	83	96	569	699	273
Guy's	9		26	23	55	1,255	159	81
King's College				7	4	102		
London		prince about the	27	<u> </u>	47	1,965	18	106
Metropolitan	account	and the contract of the contra	ಟ	m		172		1.9
Middlesex	20		竞	5 .	74	1,944	155	. 8
Royal Free		sproprasi saa	74	29	156	2,630	114	456
Royal London Ophthalmic		planes	20	No. of the last of	55	519	166	184
Royal Northern	29		181	88	336	7,546	49	530
St. George's			16	ಣ	29	603		181
St. Mary's			66	22	171	2,875	239	349
St. Paul's	20		03	86	198	7,914	170	92

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200	O.	10	187	216		pure in the later of the later			3,881	437	4,318
163	200	12	36	96	10	}			2,154	100	2,254
7,807	57	53	2,690	12,548	484	144			51,877	5,068	56,945
287	00	ಣ	70	443	10	7	}		2,052	276	2,328
121		ನಾ	e13	98				Contract of the contract of th	661	113	774
104	100	photo-disease	50	268	9	<u>-</u>			1,010	66	1,109
Part of the Control		The same of the sa		B-sylvatradule)		gundana			 ,	73	3
66	3 6	pathon action as		600) or				380	62	442
	Comment of the commen	Scrett Tender for Women	Trainguette College	Wood I and an	West Louding	Solvetion Army Mothers	Children's, Waddon		Joint London Hospitals, Totals	*Prince of Wales's, Totten- ham	Grand totals

* These figures do not include 55 new cases not residents of the County but treated at the Hospital, the cost being borne by the Middlesex County Council under the agreement with the Hospital.

Maternity and Child Welfare.

Administration of the Midwives Acts, 1902 to 1926.

The County Council is the local supervising authority under the Midwives Acts for the whole of the County and, as such, received notices of their intention to practise, either permanently or temporarily, from 389 midwives during the course of the year. This shows an increase of

two over the corresponding figure for 1928.

In addition to the certified midwives mentioned above, a further 857 women, holding the certificate of the Central Midwives Board, were resident in the county. Of these, 66 were not subject to the supervision and control of the County Council, in view of the fact that they were employed in various Poor Law institutions. The remainder, numbering 791, were not engaged in the practice of midwifery, but were either employed in health visiting, general and maternity nursing, or else not actively occupied in the exercise of their profession. The number of midwives included in the above two groups shows an increase of 94 over the figure for the previous year, thus giving a net increase of 96 in the total number of midwives resident in the county.

The distribution of practising midwives among the several sanitary districts of the county is shown in the

following table:-

abei a rict l of 20		~ (21	ا ا			-1		ر م			J W		4	1	%	20	9 0		23	
Number in district end of 1920		-			1		4			21 :	0	<u>~</u>		7				48		322	
Practising temporarily during 1929.		Walter Committee of the			į	1				_		}	,			30		∞		29	
Removed from district during 1929.		-	damen Thanks		ो ।	 -												*	The state of the s	38	
Total number of midwives practising during 1929.			77	:c		<u></u>		67	<i>σ</i> ;	977	<u> </u>	ಟಾ		<u>.</u>		=	ಣ	09		389	
))istrict.	Urban—continued.	Staines	Sunbury	Teddington		Twickenham(Borough)	Uxbridge	Wealdstone	Wembley	Willesden	Wood Green	Yiewsley	Rural—	Hendon	South Mimms	Staines	Uxbridge	Extra County		Totals	
Number in district end of 1929.		0.0		∞	27	17	td	ಣ	7	-	?		<u>ග</u>	9	16	15	14	<i>0.1</i>	ಸರ	က	ර ා
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Prace N tising temporarily eduring H929.	•	_			<u> </u>				Anni Physial Miller (1994)	্য	da Com	A					T			6.1	
	•					1 0	processing to	suddy-offices	Contractions (Contraction)	31	A Company	And the second s			1.5	- -				67	Management
Practising temporarily during 1929.	•	11 - 11		1 07		23 5 1		1	6.	61	8.		3.0	9	29	25.	15 1		9	2	6
Romoved brac- from tising district tempo- during rarily 1929. 1929.			and		31			77	6.	1			10	9			Hornsey (Borough) 15 — 1			10	6

* 2 midwives died.

Qualifications of midwives in practice.—The qualifications of the practising midwives are as follows:—

- 358 have passed the examination of the Central Midwives Board.
 - 20 possess the certificate of the London Obstetrical Society.
 - 11 were enrolled by reason of having been in bona fide practice previous to the Midwives Act, 1902, coming into operation.

The number of certified midwives who gained admission (without examination) to the Roll in virtue of having been in *bona fide* practice before the Act came into force shows a further decrease, and now amounts only to 2·83 per cent. of the total.

Uncertificated Women.—As a result of consideration of a report on the matter, the Maternity and Child Welfare Committee decided to prosecute under the Midwives Acts, 1902—1926, a woman (whose name had been struck off the Midwives Roll in 1925) for using the title of midwife without being so certified under the Act, and also for attending a woman in childbirth otherwise than under the direction and personal supervision of a qualified medical practitioner. The summonses were heard in April, when the last-mentioned charge was dismissed, the Magistrates accepting the plea of the defendant that she acted in emergency and urgent necessity. She was, however, fined £5 for using the title of midwife.

Verbal cautions were administered in five instances, and the women concerned are being kept under observation as far as possible.

Number of Births Attended by Midwires.—Practising midwives are required to furnish a return at the close of each year detailing the number of women attended by them either in the capacity of midwife, or whilst acting as maternity nurse under the direction of a medical practitioner. Owing to removals, deaths, &c., a few errors are

inevitable, but there is every reason to believe that the information obtained is substantially accurate. During 1929, 8,655 births in Middlesex were attended by certified midwives acting in the capacity of midwife, and in 2,501 further cases certified midwives acted as maternity nurses. The number of births attended by midwives is equal to 37·1 per cent. of all births registered, while certified midwives were employed as maternity nurses in 10·7 per cent. of cases, proportions much the same as in 1928.

Although the actual number of bona-fide midwives has decreased by two, the number of births attended by them shows a rise of 32, being 400 as compared with 368 in 1928, and amounting to 4·6 per cent. of all births attended by midwives. In a further 53 cases bona-fide midwives acted as maternity nurses, an increase of three on the number during the previous year.

Details as to the births attended by midwives in each sanitary area of the county are shown in the following table.

BIRTHS ATTENDED BY MIDWIVES IN EACH SANITARY AREA IN THE COUNTY.

	Births at which midwives acted as nurses, 1929.	17 68 53 101 74 150 86 84 7 7 45 46 41 90
	Births attended by midwives residing in each district, 1929.	1,166 1,166 1,166 370 1116 100 478 224 170 53 317 36 233 8,655
	District.	Urban—continued. Sunbury Teddington Tottenham Twickenham (Borough) Uxbridge Wealdstone Wealdstone Wood Green Yiewsley Willesden Wood Green Thendon South Mimms Staines Uxbridge Attended by midwives residing outside the County Totals
	Births at which midwives acted as nurses, 1929.	10 106 106 1133 100 101 133 133 133 133 13
	Births attended by midwives residing in each district, 1929.	187 503 852 935 126 144 122 177 229 236 440 323 146 79
DIKING	District.	Acton (Borough) Brentford and Chiswick Ealing (Borough) Edmonton Finfeld Finchley Friern Barnet Hampton Wick Harrow Harrow Harrow Kingsbury Southall-Norwood Southagate

Notifications.—The number of notifications received from midwives, in accordance with the Rules of the Central Midwives Board, together with similar figures for the previous four years, are as follows:—

	1925.	1926.	1927.	1928.	1929.
Notifications of—				And a second control of the second control o	
Sending for medi-					
cal assistance	1,615	1,689	1,760	1,862	1,940
Still-birth	128	139	128	145	135
Death of infant	103	91	90	90	95
Death of mother	2	2	3	7	4
Laying out the					
dead	34	32	33	41	31
Artificial feeding	55	60	54	43	55
	90		01	10	99
Liability to be a				i I	
source of infec-	~ o	101	100	130	O.T
tion	56	101	126	116	91
Totals	1,993	2,114	2,194	2,304	2,351
Totals	1,990	2,114	4,134	2,304	2,001

An examination of the above table shows that there has been an increase of 47 in the number of notifications of sending for medical aid, as compared with the number relating to the previous year, but this increase is not disproportionate in view of the increased number of births attended by midwives during 1929.

The following analysis shows the relative numbers of these notifications falling into various categories for the past five years:—

Medical assistance required for conditions arising	1925.	1926.	1927.	1923.	1929.
During pregnancy During labour During lying-in In infant Totals	859 185 444	129 840 210 510 1,689	226 844 168 522 1,760	244 982 159 477 1,862	257 974 184 525

Maternal Deaths.—It will be observed that, in the table on page 79, the deaths are recorded of four women who were notified by midwives as having died while under their care. In addition to this number must be noted those cases who, while being attended by certified midwives, became so seriously ill as to necessitate their removal to hospital, where they subsequently died. Nine such deaths occurred during 1929, making a total of 13, or a maternal death-rate for midwives' cases of 1.56 per 1,000 births attended, a figure comparing very favourably with the same rate for all births in the County, namely, 3.26 per 1,000 births.

As result of enquiries made into each of the 13 deaths recorded above, it appears that the causes of death were

as follows:-

Puerperal sepsis	
Toxæmias of pregnancy—	
Eclampsia	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ 3
Albuminuria	$2 \int \frac{3}{3}$
Shock following—	
Obstructed labour (died under	•
anæsthetic)	1
Difficult labour (died two days	$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$
_ later)	$1 \begin{bmatrix} 3 \\ 1 \end{bmatrix}$
Ruptured peritoneal vein	. 1]
Complication of labour or puerperium	<u>.</u>
Pneumonia	1)
Cerebral hæmorrhage during labou	$\left.\begin{array}{cc} 1\\1\\5\end{array}\right\}$
Placenta prævia	5 \
	13

Puerperal Fever and Puerperal Pyrexia.—Under the Public Health (Notification of Puerperal Fever and Puerperal Pyrexia) Regulations, puerperal fever was notified in 14 and puerperal pyrexia in 40 cases which had been attended in their confinements by certified midwives. These figures represent 24·1 per cent. and 21·3 per cent. respectively of the total notifications received under the Regulations.

The terms "puerperal fever" and "puerperal pyrexia" are not to be considered as mutually exclusive. Whereas "puerperal fever" refers to a definite clinical condition in which there is a rise of temperature resulting from the infection by micro-organisms of some part of the genital tract, "puerperal pyrexia" (which was not a term in general use prior to the issue of the Regulations referred to above) has a much wider meaning and includes any rise of temperature exceeding $100 \cdot 4^{\circ}$ persisting for more than 24 hours or occurring on more than one occasion during the course of the puerperium, irrespective of the actual cause of such temperature.

The evidence furnished by very careful enquiries made in all cases of high temperature occurring in the practices of certified midwives indicates that the rise of temperature was in all probability due to puerperal sepsis in 39 of the 54 cases of puerperal fever or pyrexia notified under the

Regulations.

This figure represents an incidence rate of notified raised temperature due to sepsis amongst midwives' cases of

3.9 per 1,000 births attended by them.

The following table records the yearly number of notifications of puerperal fever, &c., and of deaths from puerperal sepsis, both in the County generally and amongst midwives' cases for the past ten years. It is some satisfaction to observe that the marked increase in deaths from puerperal sepsis recorded last year, has not been repeated during 1929 notwithstanding the increase of over 600 in the number of births in the County. It is also of interest to note that no case of death attributable to puerperal sepsis occurred in the practice of any certified midwife throughout the whole of the year.

PUERPERAL FEVER AND PUERPERAL PYREXIA.

Deaths from Puerperal Sepsis amongst midwives' cases.				ಸಾ	19	9	ಸಾ	10	00	್ಷಾ	ဗ		
Cases notified in practices of midwives.	Puerperal Pyrexia.		1	1		1	министический		171	46	39 55	9	
Cases no practices o	Puerperal Fever.		20	18	17	16	16*	18	53	6	15	14	
Number of births	by midwives.		12,396	11,300	10,884	10,246	10,218	10,164	8,869+	8,699	8,596+	8,655†	
Total number of deaths	from Puerperal Sepsis.		49	34	35	36	34	25	30	24	. 42	27	
Total number of cases notified.	Puerperal Pyrexia.					Producery and	-		74+	197	177	188	
Total nur cases no	Puerperal Fever.		79	80	57	67	55*	62	63	41	63	58	
Total number of registered births.			29,842	25,191	23,775	23,172	21,993	21,533	21,703	21,123	22,665	23,331	
Year,			•	•	•	•	•			•	•		
			1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	

* These figures relate to the period of 53 weeks ended 3rd January, 1925.

† Middlesex cases only.

‡ From 1st October, 1926.

Ophthalmia neonatorum.—Among the 525 notifications of sending for medical assistance for various conditions affecting newly-born infants are included 234 on account of inflammation of, or discharge from, babies' eyes. This is an increase of 42 upon the corresponding figure for 1928. In 167 instances the practitioners consulted were of the opinion that the condition present was not ophthalmia neonatorum. In the remaining 67 cases notifications of ophthalmia neonatorum were received.

Enquiries have been made into all cases of inflammation of, or discharge from, infants' eyes occurring in the practices of certified midwives, by officers either of the County Council or of the local sanitary authority under the special arrangements made following upon the issue of the Public Health (Ophthalmia Neonatorum) Regulations, 1926. From these enquiries it has been learned that there was complete

recovery without injury to vision in every case.

Visits of Inspection.—The number of visits made by the Council's inspectors of midwives during 1929 was as follows:—

Visits	to midwives who had notified their	
	intention to practise	906
,,	midwives who had not notified	22
,,	women not certified under the Mid-	
	wives Act	8
,,	patients' homes in connection with	
	cases of oplithalmia, &c	120
,,	other persons in connection with	
	investigations under the Midwives	
	Acts	150
,,	premises in connection with the	
	registration of nursing homes	278
,,	ante-natal clinics and welfare centres	55
	Total	1 539

Action taken.—The Maternity and Child Welfare Committee had under consideration in May complaints of misconduct on the part of a certified midwife practising in the County, when they found a prima facie case against the midwife of breaches of the Rules of the Central Midwives Board. Accordingly, the matter was reported to the

Board for investigation. The Board decided that a case had been made out, which required an answer from the midwife, and the specific charges framed by the Board were investigated at a special meeting of the Board on 7thNovember, 1929. The Board found several of the charges to be proved and, in order to give the midwife an opportunity of proving amendment, decided to postpone sentence and asked the County Council to report at the end of three months and again at the end of six months on her conduct and methods of practice.

The Maternity and Child Welfare Committee, however, did not agree with the findings of the Board and were of opinion that the midwife's name should have been removed from the Roll forthwith. The Board were informed of the

'Committee's views.

In accordance with the Central Midwives Board's decision, the midwife will be kept under special supervision and the reports required will be forwarded to the Board during 1930.

Letters of warning were sent to four midwives who had committed breaches of the Rules.

Letters of warning also were sent to two women not certified under the Midwives Act.

Eight certified midwives received verbal cautions from

the Council's inspectors of midwives.

Lectures to midwives.—In the Annual Report for 1928 reference was made in some detail to the inauguration of a scheme whereby midwives practising in Middlesex were given the opportunity of participating in the very complete course of post-graduate instruction in obstetrics organised by the London County Council for the benefit of London Midwives. A very small charge is made to each midwife attending, the balance of the cost being shared by the two County Councils on the basis of user.

The facilities thus afforded for keeping in touch with modern developments affecting their work was much appreciated by Middlesex midwives, of whom 149 attended either the whole or part of one of the courses of lectures.

Arrangements on similar lines have been made for 1930 and details of the courses are set out below.

It has been found desirable to arrange for an increase both in the total number of lectures and demonstrations

given and in the range of institutions where these are held:—

NORTH LONDON COURSE, 1930.

Institutions at which Lectures will be given and Subjects of Lectures.

THE MOTHERCRAFT TRAINING SOCIETY, CROMWELL HOUSE, HIGHGATE HILL, N.6.

Care of the newly-born infant (January 3rd).

THE HACKNEY HOSPITAL, 230, HIGH STREET, HOMERTON, E.9.

Difficulties that may arise during labour and how the midwife should meet them. Routine examination at the tenth day after confinement and at the end of the sixth week. Demonstration in urine testing (January 13th); Sub-involution of the uterus—how to detect it—the signs and symptoms—its causes —its immediate and remote dangers. Treatment. Management of the third stage of labour. Retained and adherent placenta. Examination of the placenta (January 27th); Pyrexia in the puerperium. The causes. Morning and evening temperature. The pulse and what may be learnt from it. Sapræmia and septicæmia (February 10th); Puerperal infection —organisms which most commonly cause it. The channels of entrance and how conveyed. Mouth hygiene (including nose and throat) of patient and attendant. The care of the hands (February 24th); Precautions to avoid puerperal infection—ante-natal care. Conduction of the labour. Care during the puerperium. The lying-in room. Antiseptics. Demonstration of cultures of organisms (March 10th); Venereal disease. Gonorrhea and syphilis in the mother and in the What the midwife should do. Treatment (March 24th); Care of the breasts during pregnancy, and during the puerperium. Difficulties which may arise in connection with breast feeding and how to meet them. Toxemias of pregnancy (April 7th); Albuminuria and eclampsia (April 14th); Puerperal insanity—and nervous and mental symptoms associated with severe illness (April 28th).

After each lecture cases of interest in the wards will be shown.

Western Ophthalmic Hospital (to be given at Hospital for Epilepsy and Paralysis and other Diseases of the Nervous System, 4, Maida Vale, W.).

Inflammation of the eyes of infants (January 15th); Inflammation of the eyes of infants (January 29th).

ROYAL NORTHERN HOSPITAL, HOLLOWAY ROAD, N.7.

Routine examination of the pregnant woman at seven months and at full term. Primipara and multipara. Routine examination at the tenth day and at the end of the sixth week after confinement. Toxemias of pregnancy. Demonstration in urine testing (January 21st); Signs of the onset of labour. Differential diagnosis of slight ante-partum hæmorrhage.

Uterine inertia. Signs and symptoms of concealed hæmorrhage. Signs and symptoms of rupture of the uterus. Signs and symptoms of pulmonary embolism. What the midwife should do in each case. The significance of dyspnœa and "air hunger" (February 4th). Post-partum hæmorrhage; differential diagnosis between hæmorrhage from the placental site and hæmorrhage from lacerations of the birth canal. Prophylaetic and curative treatment of post-partum hæmorrhage (February 18th); Pyrexia in the puerperium. The causes. Morning and evening temperatures. The pulse—what may be learnt from it. Puerperal infection (sapræmia and septieæmia)—organisms which most commonly cause it. The channels of entrance and how eonveyed. Mouth hygiene (including nose and throat) of patient and attendant. The care of the hands. Germ carriers (March 4th): Preeautions to avoid puerperal infection. Antenatal care. Conduction of the labour. Care during the puerperium. The lying-in room. Antisepties (March 18th; Malpresentations—their prevention—diagnosis and treatment (April 1st); the contracted pelvis. Obstructed labour—its prevention —diagnosis and treatment (April 15th).

Cases of interest in the wards will be shown after each lecture.

LECTURERS.

Miss M. Liddiard, Mothereraft Training Society.

James I. P. Wilson, Esq., F.R.C.S., Hackney Hospital.

A. Rugg-Gunn, Esq., F.R.C.S., Western Ophthalmic Hospital.

F. Roques, Esq., F.R.C.S., Royal Northern Hospital.

SOUTH LONDON COURSE, 1930.

Institutions at which Lectures will be given and Subjects of Lectures.

GUY'S HOSPITAL, ST. THOMAS'S STREET, S.E.1.

Clinic in Maternity Ward (January 9th); Venereal disease in women and ehildren. Speeimens will be shown (March 5th); Venereal disease in women and ehildren. Speeimens will be shown (March 6th).

- The Midwives' Institute, 12, Buckingham Street, Strand. W.C. Puerperal infection, its causes, treatment and prevention (January 23rd); Hæmorrhage, ante- and post-partum (February 12th); Some causes of still-birth and neo-natal death (March 26th).
- THE POST-CERTIFICATE SCHOOL, 77, SOUTHAMPTON STREET, CAMBERWELL, S.E.5.

Ante-natal observation (February 3rd): The management of labour (February 28th).

St. Thomas's Babies Hostel, Prince's Road, Kennington, S.E.11.

Difficulties in breast feeding and their solution (February 19th).

(Note.—Midwives who attend early or stay late will be taken over the Hostel by the matron.)

THE INFANTS' HOSPITAL, VINCENT SQUARE, S.W.1.

The premature and delicate baby (March 11th).

St. Thomas's Hospital, Albert Embankment, S.E.I. Clinic in Maternity and Gynæcological Wards (March 17th),

THE GREENWICH AND DEPTFORD HOSPITAL, 48. VANBRUGH HILL, S.E.10.

Difficult labours and their after-effects (April 2nd).

LECTURERS.

G. F. Gibberd, Esq., F.R.C.S., Guy's Hospital.
Dr. Morna Rawlins, Guy's Hospital.
James M. Wyatt, Esq., F.R.C.S., The Midwives' Institute.
Arthur J. Wrigley, Esq., F.R.C.S., The Midwives' Institute.
Sister Doubleday, The Post-Certificate School.
Charles K. J. Hamilton, Esq., M.R.C.P., St. Thomas's Babies Hostel.
Eric C. Pritchard, Esq., F.R.C.P., The Infants' Hospital.
A. H. Richardson, Esq., F.R.C.S., St. Thomas's Hospital.
Dr. W. D. Wiggins, Greenwich and Deptford Hospital.

Payment of Fees to Medical Practitioners.—Under the Rules of the Central Midwives Board, a midwife is required to send for medical assistance in all cases of illness or abnormality in the course of pregnancy, labour, or lyingin, and the doctor sent for is entitled to the payment of a fee by the County Council, in accordance with a scale and subject to certain conditions laid down by the Ministry of Health. The County Council has power to recover from the patient or her husband, the amount so paid, or such proportion of it as the financial circumstances of the case justify.

In the case of inflammation of, or discharge from infants' eyes, this right of recovery by the County Council has been waived, in accordance with the suggestion of the Ministry of Health, in order that there may be no temptation for midwives to delay calling in a doctor in cases of apparently

trivial affection of the eyes.

The table on the next page furnishes details as to the cost of this scheme to the County Council during the past five years. It should be noted that while the financial particulars refer to the financial years, the numbers of notifications and claims are those received during the corresponding calendar years.

FEES PAID TO MEDICAL PRACTITIONERS UNDER SECTION 14 OF THE MIDWIVES ACT, 1918.

D. Income received from Patients in respect of Doctors' fees.	£ s. d. 224 6 2 396 3 11 303 5 6 330 1 8 360 7 4 482 6 3
Income Patients Doct	1924–25 1925–26 1926–27 1927–28 1928–29 1929–30
C. Total amount due to Doctors in respect of cases attended by them during financial year.	£ s. d. 901 7 6 885 10 0 832 19 0 937 1 6 1,066 15 6 1,314 11 6
Total am Doctors in a attended by financ	1924-25 $1925-26$ $1926-27$ $1927-28$ $1928-29$ $1929-30$
Percentage of B to A.	44.6 44.6 43.2 41.1 50.3
B. Number of Claims for fees received.	622 720 730 723 849 573
A. Number of notifications of sending for Medical Aid.	1,331 1,615 1,689 1,760 1,862 1,940
Year.	1924 1925 1926 1927 1928

MATERNITY AND NURSING HOMES.

The County Council is the authority responsible for the administration of the Nursing Homes Registration Act, 1927, throughout the whole of the County. This Act renders it an offence for any person to carry on a nursing home without being registered by the local supervising authority in respect thereof.

A nursing home is defined in the Act as any premises used, or intended to be used, for the reception of, and the providing of nursing for, persons suffering from any sickness, injury, or infirmity, and includes a maternity home, but does not include

but does not include—

- (i) Any hospital or other premises maintained or controlled by a Government department or local authority or by any other body of persons constituted by special Act of Parliament or incorporated by Royal Charter;
- (ii) Any institution for lunatics within the meaning of the Lunacy Act, 1890;
- (iii) Any certified institution, certified house or approved home within the meaning of the Mental Deficiency Act, 1913.

In addition the local supervising authority may grant exemption from the operation of the Act in respect of

any hospital or institution not carried on for profit.

On 1st January, 1929, there were registered with the County Council under the Nursing Homes Registration Act, 153 nursing homes, this number including those maternity homes which previous to June 30th, 1928, had appeared on the County Council's register of lying-in homes under the Middlesex (General Powers) Act, 1921, and subsequently were transferred to the Council's register under the new Act. These 153 homes had all been inspected personally by either the County Medical Officer or the Deputy County Medical Officer, accompanied by one of the Council's inspectors of midwives. During 1929, 41 further applications for registration were received, and in each case a similar inspection was carried out. At the close of

the year there were 159 nursing homes on the register of

the County Council.

In accordance with section 6 of the Act, exemption from registration was granted in respect of 26 institutions not carried on for profit. Four of these were nursing homes belonging to charitable organisations, the remainder being general and local hospitals supported by voluntary contributions. The Ministry of Health exempted from registration four homes carried on in accordance with the principles of Christian Science.

The Committee decided to institute legal proceedings against a medical practioner and a nurse for jointly carrying on a nursing home without being duly registered in accordance with the provisions of the Nursing Homes Registration Act, 1927. The case was heard in April and

the Magistrates fined each defendant £10.

The following table gives information regarding the registration of lying-in homes under the Middlesex (General Powers) Act from 1922 to June 30th, 1928, and of nursing homes under the Nursing Homes Registration Act from

July 1st, 1928, until December 31st. 1929.

LYING-IN HOMES.

	1120001100	ig wha Onioa Wega	1	1	
On Register at close of year.	Accommodation (beds).	293 339 359 366 365 391		863	
On Register a close of year.	Number.	94 106 110 118 118 125 124*		153 159	
Registra.	tion cancelled.			64	1st, 1928.
Removed from Register	on account of death or removal, or voluntarily	4 0 18 10 12 12 10	-	18	† On Register on July 1st, 1928.
Applica-	over or postponed.			9	† On Regis
Begistra-	tions granted.	98. 22. 13. 13. 10.	HOMES.	49	
Registra-	tions refused.	4 4679 1	NURSING	panel panel	928.
Applica- tions voluntarily withdrawn.		444600000		H. Ö	une 30th, 19
Applica-	tions received.	106 25 31 31 19 33	-	56	* On Register on June 30th, 1928.
ister at ; of year.	Approved accommodation (beds).	293 339 365 365 391		886	* On R
On Register at beginning of year.	Number of homes.	94 106 110 1118 1118 125		} 124† 153	
	Year.	1922 1923 1924 1925 1926 1927 1st half		2nd half 1928 1929	-

The following table shows the number of registered nursing homes in each sanitary district in the County.

The figures in brackets indicate the number of homes devoted either wholly or partly to the reception of maternity cases.

District.	Number of nursing homes on Register at end of 1929.	Approved accommodation (beds) at end of 1929.		
Urban— Acton (Borough)	4 (4)	21		
Prontford and Objection	(7)	31		
Ealing (Borough)	90 (14)	159		
Edmonton	9 (9)	8		
Enfield	F (4)	19		
Feltham	1 /1)	4		
Finchley	12 (9)	64		
Friern Barnet	1 (7)	1		
Hampton	9 (9)	11		
Hampton Wick				
Harrow		44		
Hayes		3		
Hendon		58		
Heston & Isleworth	$. \qquad 5 \qquad (4)$	18		
Hornsey (Borough)	. 20 (16)	117		
Kingsbury		8		
Ruislip-Northwood		9		
Southall-Norwood	\ /	6		
Southgate	. 5 (5)	39		
Staines ··· ··	(1)	18		
Sunbury		10		
Teddington	, ,	26		
Tottenham		11		
Twickenham (Borough)	, ,	66		
Uxbridge	$3 \qquad (2)$	16		

District.		nur home Reg	ber of sing es on ister nd of 29.	Approved accommodation (beds) at end of 1929.	
Urban—continued. Wealdstone Wembley Willesden Wood Green Yiewsley and West	Drayton	$\begin{array}{c c} 10 \\ 2 \end{array}$	(1) (7) (7) (2)	$\begin{array}{c} 7 \\ 26 \\ 51 \\ 7 \\ - \end{array}$	
Rural— Hendon South Mimms Staines Total	•••		(6) — — (125)	53 — — — 911	

MATERNITY AND CHILD WELFARE SCHEME.

The County Council is the authority for maternity and child welfare in 13 of the 33 sanitary districts which, at the close of 1929, made up the administrative County, namely, the Urban Districts of Feltham, Friern Barnet, Hampton Wick, Hayes, Kingsbury, Ruislip-Northwood, Staines, Sunbury, Uxbridge and Yiewsley and West Drayton, and the Rural Districts of Hendon, South Mimms and Staines. In all of these districts the County Council is also the authority for elementary education.

At the close of 1928, arrangements were in hand for the holding of special sessions for the examination of pregnant women at some of the more largely attended welfare centres, and during 1929 monthly sessions for ante-natal cases have

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been held at the centres at Ashford, Feltham, Friern Barnet, Hayes (Townfield Road), Headstone, Staines, Sunbury and Yiewsley. Including the centre at Uxbridge (at which special ante-natal sessions were being held prior to 1st January, 1929), ante-natal sessions are now being held once a month at nine centres in the maternity and child welfare area of the County Council. Although the examination of pregnant women has been undertaken at the County Council's welfare centres since the inception of the maternity and child welfare scheme, the establishment of these special sessions has proved a useful extension of the scheme, and most satisfactory attendances have been recorded.

The increasing realisation by women of the extreme importance both to mother and offspring of skilled antenatal advice will probably necessitate the holding in the near future of antenatal sessions at other centres in the County Council's area, and there could be no more valuable

development of the service.

The increasing population of the County has created the need for a number of additional maternity and child welfare centres and during the year seven new centres were opened, viz., at Ashford Common, Bedfont, Hayes (Townfield Road), Hillingdon, Ickenham, Kingsbury and South Ruislip. The number of centres provided by the County Council now is 34. Sessions are held thrice weekly at Hayes (Botwell), twice weekly at Hayes (Townfield Road), Uxbridge, and Yiewsley, and once a week at the remainder.

At the close of the year the establishment of several additional centres in parts of the County, where there was evidence that the existing provision was inadequate, was under consideration. The table on pages 96–98 gives particulars regarding the situations and times of sessions of the various welfare centres, and the name of the medical officer in charge of each; whilst the table on the following page affords similar information as to the antenatal clinics in operation at the end of the year.

COUNTY COUNCIL WELFARE CENTRES AT WHICH ANTE-NATAL SESSIONS ARE HELD.

Medical Officer First Session in Charge.	ach Dr. Wilson 30th September, 1929. ach Dr. Daniel 27th September, 1929. ach Dr. Ruddy 26th September, 1929. each Dr. Heddy 26th September, 1929. ach Dr. Glyn-Jones Transferred from Uxbridge Urban District Council on 1st April, 1928. ach Dr. Ruddy 24th September, 1929. ach Dr. Burn 31st December, 1929. ach Dr. Wilson 25th September, 1929.
Day and Time of Ante- Natal Session.	Last Monday in each month, 9.30 a.m. Last Friday in each month, 2.30 p.m. Last Monday in each month, 9.30 a.m. Last Thursday in each month, 9.30 a.m. Second Wednesday in each month, 9.30 a.m. Last Tuesday in each month, 9.30 a.m. Last Tuesday in each month, 9.30 a.m. Last Tuesday in each month, 9.30 a.m. Last Wednesday in each month, 9.30 a.m.
Address of Centre.	The Hut, Council School Congregational Church Hall, Oakleigh Road, Whetstone Townfield Road Council School Council School Congregational Church Hall, Rooksmead Road The Hut, Dunstans, High Street, Uxbridge Central Hall, Fairfield Road Church Hall Wesleyan Church School Room, Clarendon Road, Ashford
Sanitary. District.	Urban— Feltham Friern Barnet Hayes Staines Vxbridge Yiewsley Hendon Staines

COUNTY COUNCIL WELFARE CENTRES.

Wodioal Officer	Charge.	Dr Wilcon	Dr. Spreat.	Dr. Spreat.	Dr. Daniel.	Dr. Heddy.	Dr. Slielley.	Dr. Shelley.	Dr. Burn.
Time	1g.		23.30	2.30	2.30	2.30		2.30	2.30
Day and	of Meeting.	Tuesday		:	•	Friday		$\begin{cases} \text{Tuesday} \\ \text{Wednesday} \end{cases}$	Wednesday
	Address of Weltare Centre.	The Hut. Council School		Freehold Social Institute, Hamp- Friday den Road.	Congregational Church Hall, Tuesday Oakleigh Road, Whetstone.	Baptist Mission, Upper Teddington Road.	Brotherhood Hall, St. Anselm's Road.	*Townfield Road Council School	†Church Hall, Bacon Lane
	Sanitary District.	Urban— Feltham	Friern Barnet	-		Hampton Wick	Hayes		Kıngsbury

Dr. Hignett Dr. Hignett.	Dr. Hignett Dr. Glyn-Jones.	Dr. Wilson.	Dr. Heddy.	Dr. Glyn-Jones.		Dr. Glyn-Jones.	Dr. Norrington.	Dr. Glyn-Jones.	Dr. Ruddy.	1929.	, 1929.
2.30	2.30	2.30	2.30	2.30	2.30	2.30	3.0	2.30	2.30	cember,	vember
Wednesday Tuesday	Thursday Monday	Wednesday	Wednesday Thursday	Wednesday	Friday	Thursday	Tuesday	$\begin{cases} \text{Tuesday} \dots \\ \text{Friday} \dots \end{cases}$	Zuesday	‡ Opened on 30th December, 1929	§ Opened on 19th November, 1929
Eastcote—Church Hall Northwood—Methodist Assem-	Ruislip—Church Institute †South Ruislip British Legion Hall West End Road	The Hut, Kingston Road Council	Congregational Church Hall, Separate Road.	\neg σ	Hayes End—Salem School, High	Koad. †Hillingdon West, St. Andrew's Hall	SIckenham, Village Hall	Uxbridge, High Street	Yiewsley and West (Yiewsley, Central Hall, Fairfield Drayton (Road.		
Ruislip-Northwood		Staines	Sunbury	Uxbridge					Yiewsley and West Drayton	* Opened on 16th October, 1929.	† Opened on 2nd October, 1929.

Medical Officer in Charge.	Dr. Burn.	Dr. Burn. Dr. Burn.	Dr. Norrington.	Dr. Daniel.	Dr. Wilson.	Dr. Wilson.	Dr. Wilson.	Dr. Wilson. Dr. Moir.	Dr. Heddy.	
Day and Time of Meeting.	P.M. 2.30	ay 2.30 y 2.30	Friday 2.30	Wednesday 2.30 Thursday 2.30	Thursday 2.30	Wednesday 2.30	Monday 2.30	Friday 2.30 Tuesday 2.30	Monday 2.30	
Address of Welfare Centre.	Edgware—Congregational Church Friday Hall.	Harrow Weald—Memorial Hall Headstone—St. George's Church Hall.	Pinner—Free Church Lecture Hall, Payne's Lane.	Potters Bar—Village Hall South Mimms—St. Giles's Parish Boom	Ashford — Wesleyan Church School Room, Clarendon Road.	*Ashford Common—Primitive Methodist Church Room.	†Bedfont—Public Hall, New Road.	Hanworth—Village Hall Harlington—Village Hall, Cherry	Shepperton Green — Council School.	
Sanitary District.	Rural— Hendon			South Mimms	Staines					

* Opened on 25th September, 1929.

† Opened on 11th November, 1929.

Information as to the attendances at welfare centres and the visits paid by the health visiting staff of the County Council to expectant mothers and children under school age at their own homes during the past five years is given in the table on page 100. Especially notable is the great increase in the number of new attendances made by expectant mothers, following the establishment of the special ante-natal sessions mentioned above. The effect of efficient ante-natal supervision in diminishing the risks incurred by women during pregnancy and parturition has already been referred to, and the increase in the number of expectant mothers attending the various centres is a matter for congratulation.

It should also be noted that in spite of the considerable number of new welfare centres opened during the year, the average attendance of infants and children per session has again risen and it appears that the demand for the expansion of the existing services has by no means been overtaken.

VISITORS.
BY HEALTH
VISITS_BY
CENTRES—HOME VISITS
AT WELFARE CENTRES-
ATTENDANCES

1929.	1,634	614 1,976 945	2,190 46,317 31,661 28,974	109,142	37.11	2,559 18,432 19,921	40,912	30,543
1928.	1,549	388 1,542 694	1,876 41,186 27,104 28,369	98,535	35.81	2,415 16,779 21,184	40,378	27,972
1927.	1,482	303 1,228 713	1,699 34,007 20,811 25,346	81,863	31.15	2,483 13,857 19,501	35,841	23,991
1926.	1,417	270 1,293 715	1,432 31,799 20,280 22,714	76,225	30.34	1,941 13,090 17,655	32,686	21,545
1925.	1,166	150 1,044 523	1,215 26,769 16,610 20,161	64,755	31.54	1,846 13,464 17,901	33,211	21,823
					children each session .		:	ual families
	Welfare Centres— Number of sessions held	New cases attending— Expectant mothers Infants under 1 year of age Children (1 to 5 years)	Total attendances made— Expectant mothers Mothers attending with infants Infants Children (1 to 5 years)	Total attendances	Average attendance of infants and children	Home visits made by Health Visitors—Ante-natal visits Visits to infants under I year Visits to children (1 to 5 years)	Total home visits	Total number of visits to individual families

Coincident with the increased attendances at welfare centres during the year, there has been an increase in the amount of dried milk, &c., issued at the centres. The following table affords information as to this, but it may be added that although the cost price of issues has increased by over £600, as compared with last year, there is an actual reduction of £10 in the nett cost to the County Council.

1929-30.	$egin{array}{c} { m Amount} \\ { m lbs.} \end{array}$	Cost Price.			Contributed by Mothers.			Charge on Scheme.		
		£ !,825	s. 7	d .	£ 1,544	s. 7	$\frac{d}{3}$	£ 280	s. 19	$\frac{d}{9}$
Virol or similar substance Cod-liver oil, malt,	-	226	17	8	238	14	5	11	16	9
&c Fresh milk		198 1 078		11 3	Į.			58 1,078		
	Totals	3,329	19	10	1,924	7	5	1,405	12	5

Dental treatment.—Expectant and nursing mothers and children below school age in need of dental treatment on account of oral sepsis or dental caries are referred to one of the dental clinics established by the Middlesex Education Committee.

In certain districts within the elementary education area of the County Council, which are autonomous in respect of maternity and child-welfare services, arrangements are in existence whereby expectant and nursing mothers and children under school age referred from the local welfare centre receive treatment on agreed terms at the clinics established by the County Council for the dental treatment of school children. Such a system in respect of children under school age has been in force in Teddington for several years past, and during 1929, upon the request of the local district councils agreements were entered into in respect of Southgate and Southall-Norwood; these, however, included the treatment of mothers, as well as children. In Southgate the scheme came into operation on 11th November, 1929. In Southall-Norwood,

owing to the death of the Medical Officer of Health, some delay has occurred, and at the close of the year the scheme had not come into operation.

As will be seen from the following figures, this branch of work now has attained considerable dimensions.

	Mothers.	Infants.*
Number inspected ,, of attendances made	$\frac{236}{1,066}$	148 (19) 215 (30)
,, treated ,, extractions (gas)	$ \begin{array}{r} 193 \\ 671 \end{array} $	146 (18) 154 (24)
,, (local anæsthetic)	413	153 (27)
other treatment (fillings, &c.).	596	242 (20)
,, dentures completed	185	

^{*} The figures in brackets, which are included in the total, relate to children of pre-school age residing in the Urban Districts of Teddington and Southgate.

The sum contributed towards the cost of dental treatment, including the supply of dentures, during the financial year 1929-30, was £198 13s. 7d., whilst the actual cost of the dentures was £168 12s. 3d.

Treatment of Ophthalmia Neonatorum.—The scheme of the County Council for the treatment of ophthalmia neonatorum, occurring in infants living in the maternity and child welfare area for which the County Council is responsible, provides for:—

- (1) The admission of infants suffering from the disease, accompanied by their mothers, to St. Margaret's Hospital.
- (2) The domiciliary nursing of cases.

Two infants suffering from ophthalmia neonatorum were admitted to the hospital during 1929. Both recovered without injury to vision. Three cases were nursed

in their homes by the County Council's health visitors. All recovered, and no injury to vision resulted from the infection in any case.

Treatment of Puerperal Fever and Puerperal Pyrexia.—
The scheme for the treatment of the above conditions occurring in women resident within the County Council's maternity and child welfare area, includes the following provisions:—

- (1) The appointment of J. M. Wyatt, Esq., F.R.C.S., Obstetric Physician to the Out-patient Department, St. Thomas's Hospital, to act as Consultant Obstetric Physician on behalf of the County Council when a second opinion is required.
- (2) The bacteriological examination of specimens of lochia or blood at the Lister Institute of Preventive Medicine.
- (3) The reception of cases of puerperal infection into the special department of the North-Western (Metropolitan Asylums Board) Hospital under the care of Dr. Wyatt.
- (4) The provision of trained nurses for the home nursing of cases of puerperal sepsis.

Dr. Wyatt's advice was sought on 13 occasions during the year and in 10 instances, in consultation with the medical practitioners who had notified the cases, he visited at their homes the patients concerned. Under the County Council's arrangements with the late Metropolitan Asylums Board, nineteen women were admitted to the wards reserved for the treatment of puerperal infection at the North-Western Hospital, under the care of Dr. Wyatt. Of these, 16 made good recoveries and were discharged. Two were transferred to general hospitals for further medical or surgical treatment and one died.

Provision of Midwives.—The two whole-time midwives appointed by the County Council have continued to practise in the districts of Yiewsley and West Drayton and Ruislip-Northwood.

With the approval of the Ministry of Health, the County Council made grants of £25 each to the Harmondsworth Nursing Association and the Stanwell Nursing Association and £50 to the Kingsbury Nursing Association in respect of midwifery services provided by those bodies in the districts which they serve. The County Council have also agreed to pay to the Elstree Nursing Association a capitation fee of 15s. for each Middlesex case attended in labour by nurses employed by the Association.

Maternity Beds.—In addition to the arrangements for the treatment in hospital of cases referred from the Central Consultative Ante-Natal Clinic, and of cases of puerperal fever and pyrexia, the Minister of Health, towards the close of 1928, signified his approval of the County Council arranging for the admission of women for their confinements to the Redhill Hospital, Edgware, in cases where the home conditions were unsatisfactory. It was not, however, found necessary to make use of this arrangement during 1929.

Central Consultative Ante-Natal Clinic.—Regular monthly sessions of the Central Consultative Ante-natal Clinic have continued to be held during the year, and the number of attendances has grown to such an extent that, on the basis of monthly sessions, the clinic is now working to full capacity. Sixty-nine women were referred to the clinic in the course of the year (a very considerable increase upon the number attending in 1928), and made a total of 84 attendances. This number represents an average of seven women per session, which is as large a number as can conveniently be examined and dealt with in the course of an afternoon, whilst on one occasion the number reached the total of 12. The great majority of the cases seen had been referred from one or other of the County Council's local welfare centres, but in a few instances cases were sent directly to the clinic by medical practitioners in the County Council's maternity and child welfare area.

A large proportion of the women seen had been referred by reason of contraction or deformity of the pelvis. This condition calls for a high degree of skill and experience on the part of the obstetrician in coming to a correct decision as to whether the woman may safely be permitted to remain at home for delivery to take place by natural means, or whether admission to hospital and possibly obstetrical interference is called for. Of the number of cases of small or deformed pelvis examined at the clinic, two were referred to St. Thomas's Hospital for further examination under an anæsthetic, and five were admitted to the maternity

wards of the Hospital for their confinement.

Five cases of toxemia of pregnancy were seen at the clinic; one of these was admitted to St. Thomas's Hospital for investigation of renal function, and after a short period of observation was permitted to return home. A second was not severe and responded to simple dietetic measures and rest at home. The other three, one of moderate and two of considerable degree of severity, were admitted to St. Thomas's Hospital, where induction of premature labour was performed and a living child resulted in each case. One of the women concerned, when seen at the clinic, was in a condition rapidly approaching eclampsia, with high blood-pressure, marked albuminuria and other signs of renal insufficiency. From experience of similar cases it is safe to say that but for prompt and skilful obstetrical treatment, death of the child was practically certain and death of the mother by no means unlikely. The other two cases referred to as having been admitted to St. Thomas's Hospital were not so rapidly progressive, but it is certain that the measures taken, whilst saving the child in each case, safeguarded the mother from further permanent renal damage.

Two cases of pregnancy complicated by heart disease were referred to the clinic; one of these, in which there was evidence of deficient compensation, was admitted to

St. Thomas's Hospital for confinement.

Several cases of malpresentation were seen. In two instances external version was performed at the clinic and in two other cases women were referred to St. Thomas's Hospital, where version was carried out under an anæsthetic.

In addition to the cases already mentioned, two women were admitted to St. Thomas's Hospital for observation and treatment of abnormal conditions complicating pregnancy, one other was examined by X-ray to confirm the

presentation of the fœtus, and two were sent to one of the out-patient departments of the Hospital for further investigation. In three instances specimens of morbid material were submitted to the Clinical Research Associa-

tion for bacteriological examination.

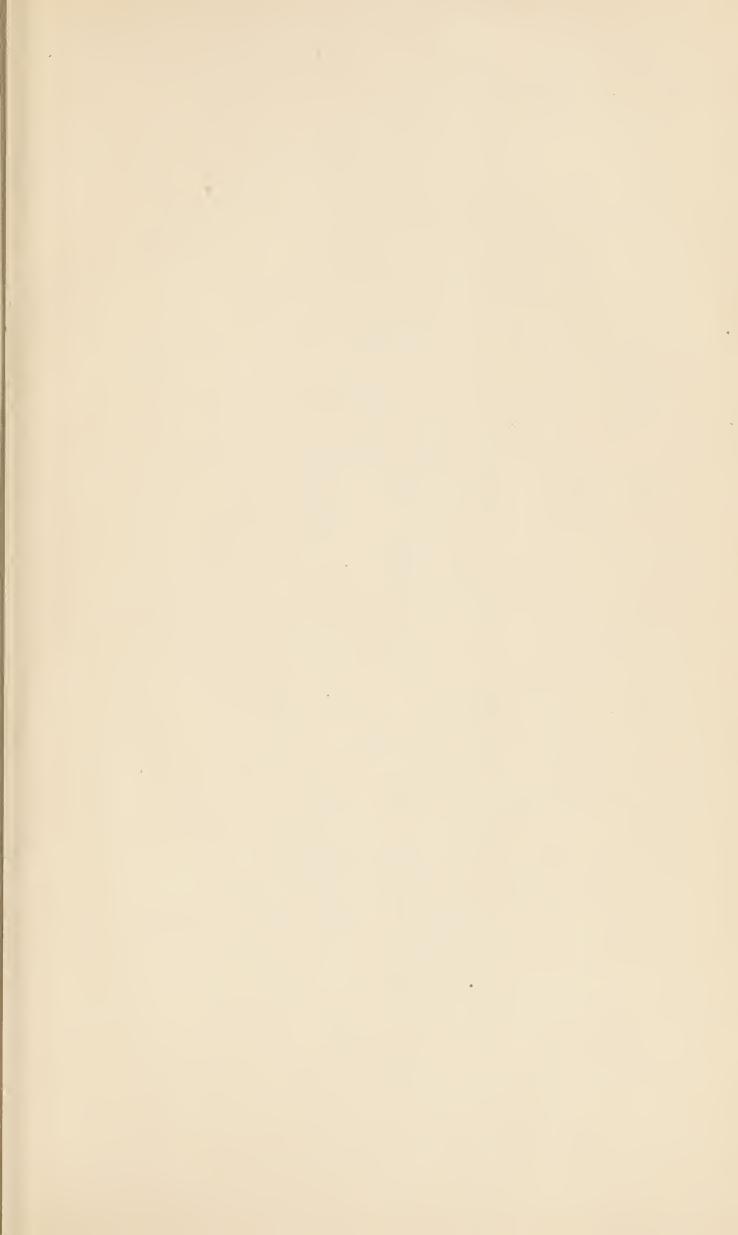
The value of the Central Consultative Ante-natal Clinic in the County Council's scheme of maternity and child welfare is indicated in the foregoing statements, and the increased number of women attending, as well as the fact that the proportion of cases which were found to present obstetrical or gynæcological features of a serious character also continues to increase, is the best evidence of the useful position the County Council's clinic fills in the campaign against maternal mortality and morbidity.

Investigation of maternal deaths.—Reference was made in last year's annual report to the appointment by the Minister of Health of a Committee to investigate the subject of maternal mortality and to the fact that the County Council was awaiting the approval of the Minister to the appointment of Dr. Wyatt as their expert investigator of cases occurring in the maternity and child welfare area of the County Council. In April the requisite approval was received and up to the end of 1929 Dr. Wyatt enquired into three cases of maternal death. In connection with these he furnished detailed reports and, in accordance with the request of the Minister of Health, these reports were submitted to me for transmission to the Minister and consideration by the Maternal Mortality Committee.

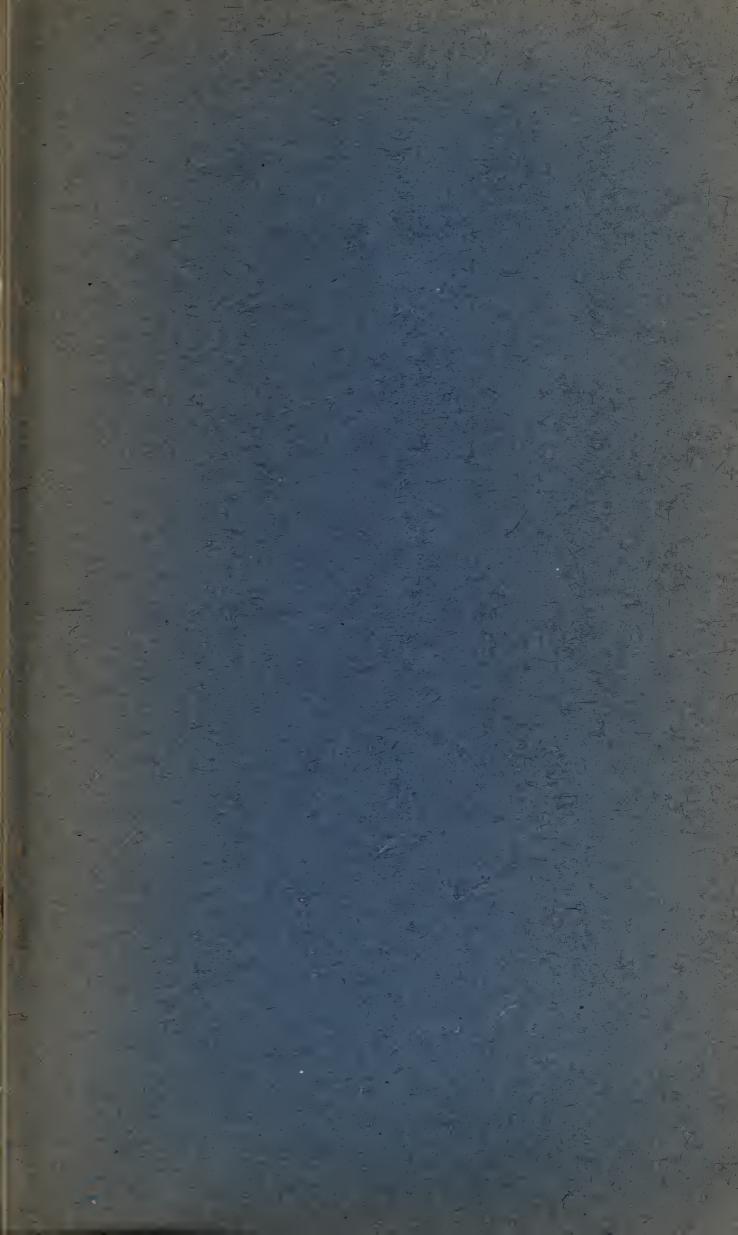
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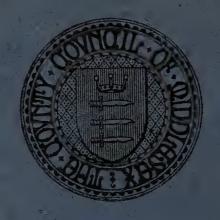
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